The 7th International Symposium on Measurement Techniques for Multiphase Flow was sponsored by the Chinese Society for Measurement, and 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. The first 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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ICeM NEWSLETTER No.37 (2012) / The Japanese Society for Multiphase Flow

- 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
Tianjin Key Laboratory of Process Measurement and Control, Tianjin University, China
E-mail: fdong@tju.edu.cn
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 (BEMUSE, 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 Commissariat 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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Vice Presidents H. Akimoto (JAEA)
A. Tomiyama (Kobe University)
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WWW homepage: http://www.jsmf.gr.jp/
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 (MNHTM2012)
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,
Secretary General
Department of Mechanical Engineering,
Kyung Hee University
E-mail: ytkang@khu.ac.kr
Tel/Fax: +82-31-201-2990/+82-31-202-3682;
Associate Professor Yutaka Tabe,
Secretary General
Graduate School of Engineering,
Hokkaido University
E-mail: tabe@eng.hokudai.ac.jp
Tel/Fax: +81-11-706-6381/+81-11-706-7889
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

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 and Mass Transfer (LTCM),
Ecole Polytechnique Fédérale de Lausanne (EPFL),
CH-1015 Lausanne, Switzerland
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E-mail: john.thome@epfl.ch
Conference Secretary
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E-mail: navid.borhani@epfl.ch
http://boiling2012.epfl.ch/

Japan-US Seminar on Two-Phase Flow Dynamics
Tokyo, Japan, June 7 - 12, 2012
Co-organizer:
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Faculty of Marine Technology, Tokyo University of Marine Science and Technology,
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E-mail: kawaji@me.ccny.cuny.edu
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:
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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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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.ap2012.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: lltces.dem.ist.utl.pt/lxtlaser/lxtlaser2012/

8th International Conference on Modeling and Diagnostics for Advanced Engine Systems (COMODIA 2012)
Fukuoka, Japan, July 23 - 26, 2012
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comodia2012_tech@power.mech.okayama-u.ac.jp
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http://www.jsme.or.jp/esd/comodia/comodia2012/

15th International Symposium on Flow Visualization (ISFV15)
Minsk, Belarus, July 25 - 28, 2012
Contact:
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Tel/Fax: +375 172 84 13 53/+375 172 92 25 13  
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Ms Olga Meleeva  
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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  

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:  
Eva Guthiel  
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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, October 28 - November 2, 2012  
Annual Meeting Program Chair:  
Lorenz T. Biegler  
Department of Chemical Engineering  
Carnegie Mellon University  
Pittsburgh, PA 15213  
Tel/Fax: 412-268-2232/412-268-7139  
E-mail: 2012Annual@aiche.org  
http://www.aiche.org/Conferences/AnnualMeeting/index.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 ----------

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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