

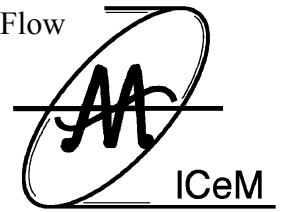


The International Information Center for Multiphase Flow

NEWSLETTER

No. 39, March 2013

The Japanese Society for Multiphase Flow



6th Japanese-European Two-Phase Flow Group Meeting September 23-27, 2012, Kumamoto, Japan

by Michio Sadatomi

6th Japanese-European Two-Phase Flow Group Meeting was held at KKR Hotel Kumamoto, Kumamoto, Japan from September 23 to 27, 2012.

The first meeting of this series was held in Portoroz, Slovenia in June 1998 aiming at the collaboration of two-phase flow research between Europe and Japan. The second was held in Tsukuba, Japan in September 2000, the third was in Certoza di Pontignano, Italy in September 2003, the fourth was in Kyoto, Japan in September 2006, the fifth was in Spoleto, Italy in September 2009, and the sixth, the present meeting, was in Kumamoto, Japan in September 2012. After the second meeting, the meeting has been held every three years in Japan and Europe in turn.

The meeting place of 6th meeting was KKR Hotel Kumamoto, being the nearest hotel to Kumamoto Castle, so we could enjoy a wonderful sight of Kumamoto Castle every day. The total number of participants was 48, and 13 of them were from Europe (3 from France, Germany and Italy,

respectively; 1 from Slovenia, Switzerland, Poland and Sweden, respectively).

In the technical session, two Keynote Lectures by Prof. Haruhiko Ohta (Kyushu University, Japan) and by Prof. Catherine Colin (University of Toulouse, France) together with thirty-seven presentations were conducted, and the exchange of information between European and Japanese colleagues was very fruitful and exciting for every lecture and presentation.

In the inspection tour to Kumamoto Castle and Beer Factory, we studied the history of Kumamoto Castle and the production of Premier Beer, and enjoyed a wonderful sight and delicious foods and drinks. In the tour to Volcano Aso, we could look down the mouth of the volcano from the top of Nakadake peak and enjoyed the notable sight of outer-ring mountains and caldera and delicious multinational foods and drinks in Aso Farmland.

In the meeting banquet, it was decided that Prof. John Thome (Ecole Polytechnique Federale de Lausanne) as Chair would hold the next meeting in

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. Toshihiro Kawaguchi
Kansai University
E-mail: kawa@kansai-u.ac.jp

Zermatt, Switzerland in 2015.

Finally, I appreciate very much for all organizers: Prof. Iztok Zun (University of Ljubljana, Slovenia), Prof. Paolo di Marco (University of Pisa, Italy), Prof. Akio Tomiyama (Kobe University, Japan), Prof. Akimaro Kawahara (Kumamoto University, Japan), and Dr. Gian Piero Celata (ENEA, Italy) who unfortunately could not participate. Appreciations are also for the financial supports from Graduate School

of Science and Technology, Kumamoto University and from Kumamoto International Convention and Tourism Bureau.

Prof. Michio Sadatomi
Chair of organizing committee
Kumamoto University, Japan
E-mail: sadatomi@mech.kumamoto-u.ac.jp



The 7th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion October 26-30, 2012, Xi'an, China

by Liejin Guo

1. General Information

The 7th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion (ISMF2012) was held successfully on October 26-30, 2012 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 100 institutes, academic communities or university in 20 countries attended this symposium. 15 plenary lectures, 10 keynoters and about 100 regular papers will be presented at the symposium.

The symposium opening ceremony held in the morning of Oct. 27. Prof. Liejin Guo hosted the opening ceremony. First, on behalf of the Conference Organization, Prof. Guo expressed his appreciation for joining of all participants. Next, Prof. Hongtan Liu from Miami University, ICCE 2012 General Chair delivered a speech. Prof. Xiaoli Wang, Deputy

Secretary of Xi'an Jiaotong University gave a welcome speech on behalf of the host University. Prof. Max LU, vice-president of Queensland University, also addressed the symposium.

In the morning of Oct. 27-29, fifteen professors were invited to give plenary lectures for all participants. Their lectures have demonstrated the newest progress and achievements as well as the trends of development on related research fields. In the meantime, at eight parallel sessions 100 attendants made oral presentations about their latest research result for their representative fields.

In the afternoon of Oct. 29, the Symposium closed with the closing address from Prof. Jianzhong Xu, Academician of the Chinese Academy of Sciences. The Symposium provided a great platform for the all participants to exchange new research ideas and make more co-operations. They all reflected that they learned a lot from the Symposium.

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 is 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 success-

fully 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 sixth symposium was held in 2009 in Xi'an in China.

Prof. Liejin Guo
Conference Chairman of ISMF 2012
Xi'an Jiaotong University
lj-guo@mail.xjtu.edu.cn

The 8th Japan-Korea Symposium on Nuclear Thermal Hydraulics and Safety (NTHAS8) December 9-12, 2012, Beppu, Japan

by Koji Morita

The 8th Japan-Korea Symposium on Nuclear Thermal Hydraulics and Safety (NTHAS8) was held in Beppu, Japan, December 9-12, 2012. This symposium was organized by the Thermal Hydraulics Divisions of Atomic Energy Society of Japan (AESJ) and Korean Nuclear Society (KNS) under the auspices of AESJ and KNS.

Japan and Korea are the two leading countries designing and building up-to-date nuclear power plants in the world. In the hopes to contribute to the nuclear system performance with enhanced safety, the thermal hydraulics divisions of AESJ and KNS initiated a biennial symposium program across the sea. Since the first symposium (NTHAS1) in Busan, Korea in 1998, NTHAS has provided a unique opportunity to discuss up-to-date technical information and to interact with colleagues from the neighboring countries. The second to seventh meetings were held in Fukuoka (2000), Kyeongju (2002), Sapporo (2004), Jeju (2006), Okinawa (2008), and Chuncheon (2010) with great success in technical quality and number of participants.

In 2012, NTHAS8 was held at B-Con Plaza,

Beppu International Convention Center, where the "APEC Growth Strategy High Level Policy Round Table" was held in 2010. The Beppu City is known as an international tourist destination for hot spring culture. NTHAS8 covers the following general subject areas on the nuclear thermal hydraulics and safety:

- Thermal Hydraulics Fundamentals
- Two-Phase Flow Experiments and Analysis
- CHF and Post-CHF Heat Transfer
- Instrumentation and Measurement Techniques
- Fluid-Structure Interactions
- Computational Fluid Dynamics and Heat Transfer
- Code Development and V&V
- Severe Accident Experiments and Analysis
- Hydrogen Behavior and Combustion
- Water Reactor Thermal Hydraulics and Safety
- Liquid Metal Reactor Thermal Hydraulics and Safety

- Gas Cooled Reactor Thermal Hydraulics and Safety
- Fusion Reactor Thermal Hydraulics and Safety
- Thermal Hydraulic Aspects of Plant Operation
- Probabilistic Safety Assessment (PSA)

This symposium dedicated only to nuclear thermal hydraulics and safety was the first international expert conference held in Japan after the Fukushima nuclear accident in March, 2011. 158 scientists, researchers and engineers including 46 students participated in the symposium from Japan, Korea, Italy and Switzerland. There were 110 oral presentations in three parallel technical session rooms over the three days. In the symposium, the plenary lectures was given by two distinguished speakers from Japan and Korea: "Nuclear Safety - Japanese Perspective -" by Prof. Kaichiro Mishima of Institute of Nuclear Safety System, Incorporated (INSS), and "Post-Fukushima Actions in Korea" by Yong-Ho Ryu of Korea Institute of Nuclear Safety (KINS). Eight high profile keynote lectures were also delivered by world-class researchers of Japan and Korea in their fields.

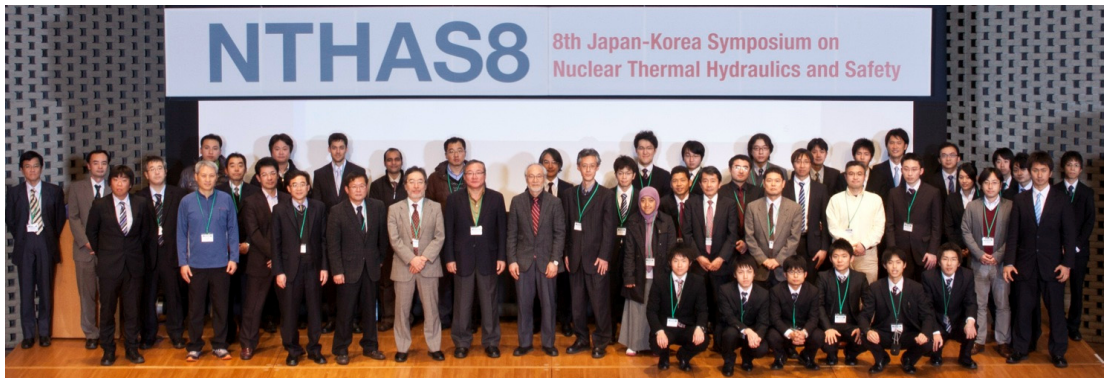
In advance of NTHAS8, a two-day student seminar providing a playground for learning, infor-

mation exchange and human networking was also held at the same venue as NTHAS8 on December 7-8, 2012 under an information exchange program for students and young researchers by AESJ and KNS. In the seminar, top researchers of both Korea and Japan gave lectures to introduce state-of-the-art technologies of their research areas on nuclear thermal hydraulics and safety. The participants discussed their research topics with poster presentations. A technical tour of a geothermal power station of Kyushu Electric Power Company by way of Yufuin City was conducted jointly by NTHAS8 and the student seminar on December 9.

NTHAS8 was financially supported by Beppu City Convention Promotion Conference. The NTHAS8 organization committee would like to take this opportunity to thank you for this funding. The next symposium, NTHAS9, will be held in Korea, 2014, organized under the joint auspices of KNS and AESJ.

Prof. Koji Morita

Co-Chair of NTHAS8 Local Organization Committee
Kyushu University, Japan
e-mail: morita@nucl.kyushu-u.ac.jp



Future Meetings

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

8th Annual European Rheology Conference

Leuven, Belgium, 2 - 5, April, 2013

Contact:

Patrick Anderson (TU Eindhoven)

Peter Van Puyvelde (KU Leuven)

[http://www.rheology-esr.net/AERC/2013/Index.php?](http://www.rheology-esr.net/AERC/2013/Index.php?MENU=1)

MENU=1

3rd International Colloids Conference - Colloids & Energy

Xiamen, China, 21-24, April, 2013

Co-Chairs:

Dongyuan Zhao, Fudan University, China

Max Lu, The University of Queensland, Australia

<http://www.colloidsconference.com/>

9th European Congress of Chemical Engineering (ECCE9) and 2nd European Congress of Applied Biotechnology (ECAB2)

The Hague, Netherlands, 21 - 25, April, 2013

Congress organizers:

MCI - Eurocongress v.o.f.

Jan van Goyenkade 11 1075 HP Amsterdam

The Netherlands

TEL: +31 20 679 3411

FAX: +31 20 673 7306

E-mail: ecce9@mci-group.com

<http://www.ecce2013.eu/>

International Congress on Particle Technology (PARTEC)

Nuremberg, Germany, 23 - 25, April, 2013

Executive Committee:

Ding, Y. – U. Leeds, UK

Salman, A. – U. Sheffield, UK

Seville, J. – U. Surrey (chair), UK

Wu, C-Y. – U. Birmingham, UK

<http://www.partec.info/en/>

10th Conference on Supercritical Fluids and Their Applications

Napoli, Italy, 29 April - 6 May, 2013

Chair: Ernesto Reverchon

Contact: Iolanda de Marco

idemarco@unisa.it

<http://www.scf2013.org/>

15th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-15)

Pisa, Italy, 12 - 16, May, 2013

Conference Chairs:

F. D'Auria (UNIPI, Italy)

Y. Hassan (Texas A&M, USA), Co-Chair

J. H. Kim (KAIST/EPRI, USA), Co-Chair

Contact:

Alessandro Petruzzi

a.petruzzi@ing.unipi.it

Martina Adorni

m.adorni@ing.unipi.it

<http://www.nureth15.org/>

Flow Chemistry Congress

Boston, United States, 14–15 May 2013

<http://selectbiosciences.com/conferences/index.aspx?conf=FCC2013>

12th Asian Symposium on Visualization(ASV12)

Tainan, Taiwan, May 19-23, 2013

Chair:

H. H. Hwung

Vice-Chair:

T. M. Liou

J. J. Miao

Secretariat:

C. Lin

K. S. Hwang

E-mail: ASV12@thl.ncku.edu.tw

<http://asv12.thl.ncku.edu.tw/>

Fluidization XIV

Noordwijkerhout, the Netherlands, May 25-30, 2013

Co-Chairs:

J.A.M. Kuipers (Eindhoven University of Technology)

R.F. Mudde (Delft University of Technology)

J.R. van Ommen (Delft University of Technology)

N.G. Deen (Eindhoven University of Technology)

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32 Broadway, Suite 314, New York, NY 10004

Tel: 1-212-514-6760, Fax: 1-212-514-6030

E-mail: info@engconfintl.org

<http://www.engconfintl.org/13af.html>

International Conference on Multiphase Flow 2013 (ICMF2013)

Jeju, Korea, May 26 - 31, 2013

Chair:

Prof. Moo Hwan Kim, POSTECH

Secretariat:

Tel/Fax: +82-2-6711-4762/+82-2-325-2095

E-mail: secretariat@icmf2013.org

3rd Fl. Euihak Bidg., 448-13 Seogyo-dong, Mapo-gu, Seoul, 121-841 Korea

Postech:

Pohang University of Science and Technology

Tel/Fax: +82-54-279-9951~3/+82-54-279-9559

Division of Advanced Nuclear Engineering

San 31 Hyoja-Dong, Nam-gu, Pohang, Gyeongbuk, 790-784 Korea

<http://www.icmf2013.org/>

7th International Symposium on Radiative Transfer (RAD-13)

Cesme, Izmir, Turkey, June 2 - 8, 2013

Correspondence:

Prof. Brent W. Webb (Conference Co-Chair)

Brigham Young University

Tel/Fax: +01 801-422-6543/+01 801-422-0688

E-mail: webb@byu.edu

<http://www.ichmt.org/rad-13/>

5th International Symposium on Physics of Fluids(ISPF5)

Changbaishan, China, June 10-13, 2013

Chair:

Lee Cunbiao (Peking University)

Co-Chair:

Shu Chang (National University of Singapore)

Zhao Ning

(Nanjing University of Aeronautics and Astronautics)
<http://serve.me.nus.edu.sg/shuchang/Fluids2013/Fluids2013.htm>

2013 ANS Annual Meeting

Atlanta, USA, June 16 - 20, 2013

General Chair:

Stephen Kuczynski (CEO, Southern Nuclear Co.)

Program Chair:

Sedat Goluoglu (University of Florida)

Assistant Program Chairs:

Jeff Brault (Engineer, Shaw Group)

Mark D. DeHart (Distinguished R&D Staff, Idaho National Laboratory)

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

President:

Prof. N. Kasagi (Japan)

Vice-president

Prof. G.P. Celata (Italy)

Contact:

Instituto Superior Tecnico

Rita Maia

E-mail: ritamaia@ist.utl.pt

Tel: +351 21 841 7186

Fax: +351 21 847 5545

<http://www.exhft8.org/>

10th International Symposium on Particle Image Velocimetry (PIV13)

Delft, the Netherlands, July 1-3, 2013

Committee:

G. Elsinga

B.W. van Oudheusden

C. Poelma

F. Scarano

F. F. J. Schijer

J. Westerwee

Tel: 31-15-2782904

E-mail: piv2013@tudelft.nl

<http://www.piv2013.org>

7th International Conference on Computational and Experimental Methods in Multiphase and Complex Flow (Multiphase flow 2013)

A Coruña, Spain, July 3 - 5, 2013

Conference Chairmen

C. A. Brebbia (Wessex Institute of Technology, UK)

P. Vorobieff (University of New Mexico, USA)

Contact: Wessex Institute of Technology

Tel/Fax: 44(0) 23 80293223/44(0) 23 80292853

<http://www.wessex.ac.uk/13-conferences/multiphase-flow-2013.html>

21st International Conference on Nuclear Engineering (ICONE-21)

Chengdu, China, July 29 - August 2, 2013

CHINSEES NUCLEAR SOCIETY

P. O. Box 2125, Beijing 100822, China

Address: Sanlihe Nansanxiang No.1, Xicheng District, Beijing, China

Tel, Fax: 86-10-68555584/59, 86-10-68527188

E-mail: icone21@ns.org.cn

<http://www.icone21.org/>

8th International Symposium on Turbulence and Shear Flow Phenomena (TSFP8)

Poitiers, France, August 28 - 30, 2013

Organizing committee:

A. V. Johansson, KTH, Sweden (Chair)

R. Friedrich, Technische Universität München, Germany

A. J. Smits, Princeton University, USA

H. J. Sung, KAIST, Korea

S. Tavoularis, University of Ottawa, Canada

J.-P. Bonnet, CNRS, University of Poitiers, ENSMA, France

<http://tsfp8.pprime.fr/>

7th World Congress on Industrial Process Tomography(WCIPT7)

Krakow, Poland, September 2-5, 2013

Chair: Dominik Sankowski

Co-Chair: Uwe Hampel

<http://wcipt7.kis.p.lodz.pl/index.html>

International Conference on Power Engineering-2013 (ICOPE-2013)

Wuhan, China, October 23-27, 2013

Chair: Prof. Shuhong Huang (CSPE)

Huazhong University of Science and Technology

Co-Chair:

Dr. Jun Inumaru (JSME)

Mr. George Saxon (ASME)

Contact: Prof. Xiaobing Luo

Tel/Fax: 86-27-87542618-612/86-27-87540724

E-mail: icope2013@126.com

<http://www.icope-2013.org/>

2013 ANS Winter Meeting and Nuclear Technology Expo

Washington DC, USA, November 10 - 14, 2013

General Chair:

James Rogers

(Chairman, President and CEO, Duke Energy)

Program Chair:

Linda Hansen

(Argonne National Laboratory)

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

The 12th International Symposium on Fluid Control, Measurement and Visualization (FLUCOME 2013)

Nara, Japan, November 18 - 22, 2013
FLUCOME 2013 Paper Submission Office
E-mail: fluome2013@ics-inc.co.jp
<http://www.k-k.pi.titech.ac.jp/FLUCOME2013/>

7th International Symposium on Measurement Techniques for Multiphase Flow (ISMTMF'2013)

Guangzhou, China, December 10-12, 2013
Guangdong University of Technology
Chair: Prof. Yingnai Zheng
Conference Secretary: Prof. Yang Li
E-mail: Zhengyn@gdut.edu.cn

----- 2014 -----

7th World Congress on Particle Technology (WCPT-7)

Beijing, China, May 19-22, 2014
Chinese Society of Particology
E-mail: wcpt7@home.ipe.ac.cn
<http://www.wcpt7.org/dct/page/1>

The 16th International Symposium on Flow Visualization (ISFV16)

Okinawa, Japan, June 24 - 28, 2014

2014 ANS Annual Meeting

Reno, NV, June 15 - 19, 2014
Grand Sierra Resort
http://www.new.ans.org/meetings/c_1

15th International Heat Transfer Conference (IHTC-15)

Kyoto, Japan, August 10 - 16, 2014
Organizing Committee
N. Kasagi, Chairman, Japan Sci. & Tech. Agency
H. Yoshida, Vice Chairman, Kyoto University
S. Maruyama, Vice Chairman, Tohoku University
<http://te.kuaero.kyoto-u.ac.jp/ihtc15/>

2014 ANS Winter Meeting and Nuclear Technology Expo

Anaheim, CA, November 9 - 13, 2014
Disney Resort & Hotel
http://www.new.ans.org/meetings/c_1

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M. Kureta (JAEA)

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Call for Papers

ISM TMF'2013-Guangzhou



The 8th International Symposium on Measurement Techniques for Multiphase Flows

(December 13-15, 2013, Guangzhou, P.R. China)

<http://www.ismtmf.com> (available soon)

Organized by

- The Chinese Society for Measurement Techniques on Multiphase Flow
- The Japanese Society for Multiphase Flow
- National Natural Science Foundation of P.R. China

Sponsored by

- Guangdong University of Technology, P.R. China

Co-sponsored by

- Southeast University, P.R. China
- University of Shanghai for Science and Technology, P.R. China
- Tianjin University, P.R. China
- Zhejiang University, P.R. China
- Institute of Mechanics, Chinese Academy of Sciences
- Beihang University, P.R. China
- North China Electric Power University, P.R. China

Scopes

After an enthusiastic response to the past seven ISMTMF held in 1995 (Nanjing), 1998 (Beijing), 2001 (Fukui), 2004 (Hangzhou), 2006 (Macao), 2008 (Okinawa), 2011 (Tianjin), respectively, we are pleased to announce that the 8th International Symposium on Measurement Techniques for Multiphase Flows will be held in Guangzhou, P.R. China on 13-15 December, 2013. The focus of this symposium is to report the latest progress in developing measurement techniques for multiphase flows and exchanging new information among scientists and engineers working in universities, industries and other fields.

Topics

- Fundamentals of Multiphase Flow Measurement
- Novel Sensors and Measurement Methods of Multiphase Systems
- Information Technology for Multiphase Flow
- Process Tomography and Flow Visualization
- Intelligent Instruments and Monitoring Systems
- Optical, Non-intrusive and Other Advanced Measurement Techniques
- Characterization and Measurement of Multiphase Nanometer Flow
- Measurement of High Temperature Multiphase Flow
- Industrial Trials of Multiphase Flowmetering Techniques
- Environmental Monitoring
- Measurement of Bio-fluids
- Other Fields on the Measurement of Multiphase Flow

Further Information

Further information on the paper submission, deadline and conference schedule is available soon on the conference website <http://www.ismtmf.com>. If you need more information on the event please contact Associate Prof. Xu (Guangdong University of Technology, Guangzhou, P.R. China) by sending an e-mail to ismtmf2013@gdut.edu.cn.

Publications

The proceedings of the conference will be published by AIP and selected papers will be published in special issues of SCI-indexed Journals.

Important Dates

- 15 April 2013-Deadline for submission of abstracts with 500-1000 words
- 15 May 2013-Notification of acceptance of abstracts
- 30 September 2013-Deadline for submission of full papers
- 30 October 2013-Notification of acceptance of full papers
- 30 August 2013-Deadline for early bird registration at a reduced fee

Local Organizing Committee

Chairman: Prof. Yingna Zheng, Guangdong University of Technology, P.R. China (Email: ismtmf2013@gdut.edu.cn)

General Secretary: Prof. Yang Li, Guangdong University of Technology, P.R. China (Email: ismtmf2013@gdut.edu.cn)



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