

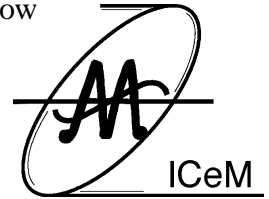


The International Information Center for Multiphase Flow

NEWSLETTER

No.24

May 2005



The Japanese Society for Multiphase Flow

"Transport Phenomena in Micro- and Nanodevices" October 17-21, 2004, Kona Coast, Hawaii, U.S.A.

by Mohamed Gad-el-Hak

Interest in micro- and nanoelectromechanical systems (MEMS and NEMS, respectively) has experienced explosive growth during the past few years. Global funding for nanotechnology R&D quintupled from \$432 million in 1997 to \$2.2 billion in 2002. In about a decade, it is estimated that nanotechnology markets will represent \$340 billion per year in materials, \$300 billion per year in electronics, and \$180 billion per year in pharmaceuticals.

The rapid progress in fabricating and utilizing MEMS and NEMS has not been matched by corresponding advances in our understanding of the unconventional physics involved. Providing such understanding is crucial to designing, optimizing, fabricating, utilizing and controlling improved minute devices. An international workshop entitled "Transport Phenomena in Micro- and Nanodevices" was planned with the primary objective of improving our fundamental understanding of the physics of transport phenomena in micro- and nanodevices. The meeting's sponsor is the not-for-profit organization Engineering Conferences International, Brooklyn, New York. Assisted by a 15-member international organizing committee, Mohamed Gad-el-Hak of Virginia Commonwealth University was the technical chair of the meeting.

The workshop was held in Ohana Keauhou Beach

Resort, Kona Coast, Island of Hawaii, during the period 17-21 October 2004. The meeting brought together 80 researchers interested in all aspects of transport phenomena in MEMS and NEMS. That is the transport of mass, momentum, energy and quantum particles in devices with characteristic lengths as small as 1 micrometer and 1 nanometer, respectively. Potential applications included micro- and nanosystems involving particulate and other multiphase flows, mixing, combustion, energy conversion, computing, biochips, photonics, etc. Also included were microfabrication involving transport phenomena, such as spin coating, etching, CVD, etc. Quantum dots and circuits, electronic transport through organic and inorganic materials, molecular electronics, control of electronic wavefunctions in molecules, quantum computations and single-electron devices were also discussed.

The number of attendees was by design less than 100 to maintain a workshop atmosphere where future research directions in the subject field are identified for the benefit of the community in general. There were no parallel sessions, but there were plenty of opportunities for fruitful discussions. A unique aspect of this workshop was bringing together two communities that hardly know much about each other, those of quantum transport and classical transport.

To Join ICeM:

Everybody, who is interested in "multiphase flow", can be a member of ICeM. You are welcome

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The meeting emphasized quantum transport to complement classical transport (such as mass, momentum and energy flux in solids and fluids), all of course as taking place in minute devices. Even in classical transport, the continuum-based Navier-Stokes equations-with either the traditional no-slip or slip-flow boundary conditions-work only for a limited range of Knudsen numbers above which alternative models must be sought. These include molecular dynamics (MD), hybrid methods, Burnett equation, Boltzmann equation, Direct Simulation Monte Carlo (DSMC), and other deterministic/probabilistic molecular models. The two disparate research communities of quantum and classical transports hardly know much about each other and the subject conference was a very important step rectifying this. Guided by an outstanding scientific committee, the meeting attracted first-rate researchers from around the world. All speakers were invited thus ensuring a meeting of the highest quality.

Seventy presentations were delivered during the meeting, and a panel discussion was held at the end to summarize the results and to decide on the future of the subject matter. The primary results from this meeting are included in a CD proceedings containing 45 papers and 9 presentations. Selected papers will be published in a special issue of Physics of Fluids, October 2005.

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Vice Presidents M. Naito (Nuclear Power Engineering Corporation)
A. Shimizu (Kyushu University)
M. Murase (Hitachi, Ltd.)

Chair of Informatics Division
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Chair of General Affairs Division
M. Takei (Nihon University)

Chair of Planning Division
T. Takamasa (Tokyo University of Marine Science and Technology)

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Report of the First International Forum on Heat Transfer (IFHT-2004) November 24-26, 2004, Kyoto, Japan

by Shigenao Maruyama

The First International Forum on Heat Transfer (IFHT2004) was held on November 24-26, 2004 at Science Park, Kyoto, Japan. .

This is the first international forum organized by the Heat Transfer Society of Japan (HTSJ). HTSJ realizes its responsibility as one of the world-largest and most active heat transfer communities to disseminate information in collaboration with other heat transfer communities in the world. To accomplish this mission, HTSJ proposes a new forum on heat transfer, which aims to gather researchers from all over the world and create new trends in the heat transfer research.

The first forum focuses on the topic of collaboration of heat transfer with bio-, micro- and nano-technologies. We have invited 7 key note speakers who are involved in the knife-edge research in those fields. Distinguished 143 papers were presented in the general sessions, which cover all heat transfer fields and new interdisciplinary academic topics. 199 participants gathered including 48 overseas participants from 13 countries.

HTSJ was established in 1961. Through 42 years of the society's history, HTSJ has become one of the world-largest societies of heat transfer with a membership of 1,400. From the first stage of HTSJ history, the members have appreciated sincere discussion on scientific and technological issues on heat transfer and considered the discussion most important to understand the phenomena. This attitude has promoted great development and expansion in heat transfer research in Japan. In order to respect the attitude, the forum is organized by a combination of short presentations and discussions with posters. All participants gather in one room. A participant can hear all presentations and discuss directory to the poster of his/her interest.

This forum resulted in a great success. This forum also showed the broad and vivid activities of HTSJ to the overseas participants. The forum was held in single room for presentations and single floor area for poster sessions. Every one can hear two minutes short presentation and discuss directory to the posters of one's interest. Vivid discussion was exchanged in front of the posters until the poster session ended.

Keynote lecturers presented the research frontiers of bio-, micro- and bio-technologies. The summary of the forum was made in the overall discussion session chaired by Professor N. Kasagi. The each session in the forum was summarized in the following section of the present TSE volume.

Heat transfer is the one of the most important science and technology that will solve the global problems in the 21st century such as in environment, energy, and life. Fusion with different academic disciplines may create a new research area. We hope this forum had a role to create new seeds in the field of heat transfer.

I would like to express my gratitude to Professor Taku Ohara of Tohoku University, as a secretary of the organizing committee, and HTSJ members who support the forum. Special appreciations are extended to the executive committee members and the chair man, Professor Kazuyoshi Nakabe of Osaka Prefecture University, with their dedicated activities to lead the forum in great success.

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The JSMF Annual Meeting 2005 will be held at Tokyo, Kogakuin University on 1st-3rd August, 2005. During the Meeting, **the 24th Multiphase Flow Symposium** will be held 3rd.

Please visit

<http://www.jsmf.gr.jp/meet2005/index.html>

to check the detail.

**NTHAS4: The 4th Japan-Korea Symposium on Nuclear Thermal Hydraulics and Safety
November 28- December 1, 2004, Hokkaido University Conference Hall, Sapporo, Japan**

by K. Sugiyama and Y. Eguchi

The NTHAS4 meeting was held on Nov. 28- Dec. 1 (2004) in Sapporo, Japan, sponsored by the Atomic Energy Society of Japan (AESJ) and Korea Nuclear Society (KNS), and also organized by the Thermal Hydraulics Division of AESJ and the Nuclear Thermal Hydraulics Division of KNS. We had 96 participants (68 from Japan side, 28 from Korean side) who presented 85 papers ranging from the fundamentals to applications on the thermal-hydraulics and safety issues of nuclear plants and systems (i.e.; Thermal Hydraulics Fundamentals, Two-Phase Flow Experiments and Analysis, Computational Thermal Hydraulics, Water Reactor Thermal Hydraulics and Safety, Liquid Metal Reactor Thermal Hydraulics and Safety, Severe Accident Experiments and Safety, Radiation Induced Heat Transfer Enhancement). We are now preparing a list of papers of high quality, that will be published as a special edition of the Journal of Nuclear Science and Technology by the AESJ.

The weather was "fine" (which means "it did not snow so much") on the first day of the NTHAS4 (Sunday), and then it rather heavily snowed after a strike of earthquake of Magnitude 7.1 (surprising wake-up shake at 03:32AM in Monday morning). Some of the attendees (especially those who were sleeping in a room on a higher floor of a sky-scraping hotel) excitedly talked a lot to each other about the large-amplitude and persistent quake they experienced, resonating with their inherent scientist's or engineer's curiosity so much. The conference dinner at the Keio Plaza Hotel Sapporo was really a fun with music and magic SHOWs (almost professional) exhibited by a local chorus team and some NTHAS4 attendees. A two-day technical tour (tour to Tomari Nuclear Power Station and tour to The Japan Steel Works) was also arranged after the technical sessions. On day 1 of the technical tour, 29 participants

visited the No.1 and No.2 Plants in commercial operation and No.3 plant under construction at the Tomari Nuclear Power Station of Hokkaido Electric Power Company. After staying at a hotel facing Lake Toya and active volcano in Sikotu Toya National Park, 17 participants visited The Japan Steel Works (Muranan city) to see manufacturing process of heavy components used for nuclear plants. Both the industrial sites as well as geothermal scenery seemed to impress the participants with magnificence and dynamism of Hokkaido very much.

A venue for NTHAS5 has not been officially selected yet (One possibility is Jeju island in Korea). We hope that future series of the NTHAS Symposium will continue to contribute to the further enhancement of the nuclear system safety and performance in Japan, Korea and other countries. Finally the writers would like to thank all the attendees for their support and cooperation, which made the NTHAS4 such a success.

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An Announcement from Editor

The JSMF gives internet-service for ICMF members.

You can read updated ICeM NEWSLETTER by visiting JSMF homepage

<http://www.jsmf.gr.jp/index-en.htm>

Future Meetings

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

Fourth International Conference on Computational Heat and Mass Transfer

Paris-Cachan, France, May 17-20, 2005
Prof. R Bennacer (Co-Chair),
rachid.bennacer@iupgc.u-cergy.fr, University of
Cergy-Pontoise, France
Prof. S. Kakac (Honorary-Chair),
skakac@miami.edu, University of Miami, USA
Prof. A. A. Mohamad (Chair),
amohamad@enme.ucalgary.ca, Calgary Univer-
sity, Canada
Prof. J. Sicard (Co-Chair), sicard@dgc.ens-
cachan.fr, Ecole Normale Supérieure, France
E-mail: icchmt@lmt.ens-cachan.fr
<http://www.wpriv.lmt.ens-cachan.fr/~4thICCHMT/>

The 13th International Conference on Nuclear Engineering (ICONE-13)

Beijing, China, May 16-20, 2005
Conference Chairmen
Dr. Rixin Kang, China National Nuclear Corpora-
tion, China
Dr. Yoshio Miyake, Mitsubishi Heavy Indus-
tries, Ltd., Japan
Romney Duffey, Atomic Energy of Canada
Limited, Canada
E-mail: cns@ns.org.cn, cns@cnn.com.cn
<http://www.ns.org.cn/ICONE2005/>

World Renewable Energy Congress - Innovation in Europe (Regional Meeting)

Aberdeen, Scotland, UK, May 22-27, 2005
Congress Organising Chair
Dr. Mohammed Imbabi
E-mail: m.s.imbabi@eng.abdn.ac.uk
<http://wrec2005aberdeen.co.uk/>

Engineering Turbulence Modelling and Measurements (ETMM6)

Sardinia, Italy, May 23-25, 2005
Chairman
Prof. Wolfgang Rodi
Institut fuer Hydromechanik
Universitaet Karlsruhe
Kaiserstrasse 12, 76128 Karlsruhe, Germany
Tel: +49-721-608 3535
Fax: +49-721-608 7712
E-mail: etmm6@ifh.uka.de
<http://www.crs4.it/ETMM6/>

8th Asian Symposium on Visualization (8ASV)

BChiangmai, Thailand, May 23-27, 2005
Chairman
Prof. B Suwantragul
King Mongkut's University of Technology
Thonburi
91 Suksawad 48, Bangmod, Tungkru, Bangkok
10140
THAILAND
Tel: (66)24708271-5
Fax: (66)24279633
E-mail: 8ASV@kmutt.ac.th
<http://www.8asv-thailand.com/>

ANS Annual Meeting

San Diego, CA, June 5-9, 2005
General Chair:
Dr. Lawrence T. Papay, Consultant
<http://www.ans.org/meetings/docs/2005/am2005-cfp.pdf>

Heat Exchanger Fouling and Cleaning - Challenges and Opportunities (ECI conference)

Kloster Irsee, Germany, June 5-10, 2005
Conference Chairs
Prof. Hans Müller-Steinhagen, German Aerospace
Centre, Stuttgart, Germany
E-mail: Hans.Mueller-Steinhagen@dlr.de
Prof. A. Paul Watkinson, The University of British
Columbia, Canada
E-mail: apw@chml.ubc.ca
<http://www.engconfintl.org/5aj.html>

SPRAY-05 International Symposium on Heat and Mass Transfer in Spray Systems

Antalya, Turkey, June 5-10, 2005
Professor Faruk Arinc
ICHMT Secretary-General
Mechanical Engineering Department
Middle East Technical University
06531 Ankara, Turkey
Tel: +90 312-210-5214 or 1429
Fax: +90 312-210-1331 or 1266
E-mail: arinc@ichmt.org
<http://www.ichmt.org/Spray-05>

18th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2005)

Trondheim, Norway, June 20-22, 2005
Chair
Prof. Signe Kjelstrup, NTNU
E-mail: ecos2005@chem.ntnu.no
<http://www.chem.ntnu.no/ecos2005/>

Computational Fluid Dynamics in Chemical Reaction Engineering IV (ECI conference)

Il Ciocco Hotel and Conference Center, Barga, Italy,
June 19-24, 2005
Conference Chair
Prof. Anthony G. Dixon
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Worcester, MA 01609 USA
Tel: 1-508-831-5350
Fax: 1-508-831-5853
E-mail: agdixon@wpi.edu
<http://www.engconfintl.org/5af.html>

Fourth International Symposium on Turbulence and Shear Flow Phenomena – 2005 (TSFP-4)

Marriott Conference Center, Williamsburg, Virginia,
USA, June 27-29, 2005
Chairman
Prof. J. A. C. Humphrey, Univ. of Virginia
Dr. T. B. Gatski, NASA LaRC
E-mail: tsfp4@cfdlab.larc.nasa.gov
<http://tsfp4.larc.nasa.gov/>

The 2nd International Exergy, Energy and Environment Symposium (IEEES-2)

Kos, Greece, July 3-7, 2005
Symposium Chairman
Dr. Christopher J. Koroneos
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Aristotle University of Thessaloniki
Box 483, 54124 Thessaloniki, Greece
Tel: +30 2310 995968
Fax: +30 2310 996012
E-mail: ieees@aix.meng.auth.gr
<http://www.ieees.org/>

5th International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion (ISMF'05)

Xi'an, China, July 3-6, 2005
Chairmen
Prof. X.J.Chen, Xi'an Jiaotong University, China
E-mail: ismf05@mail.xjtu.edu.cn
<http://www.ismf05.xjtu.edu.cn/>

2005 Heat Transfer Conference and InterPACK '05

Westin St. Francis Hotel, San Francisco, CA, USA,
July 17-22, 2005
General Chair
Prof. Alfonso Ortega,
The University of Arizona (USA)
E-mail: ortega@u.arizona.edu
<http://www.asmeconferences.org/htpack05/IPackCFP.cfm>

International Symposium on EcoTopia Science 2005 (ISETS 05)

Integrated Building (IB), Nagoya University, August 8-9, 2005
Chair
Prof. Kuniyuki Kitagawa
EcoTopia Science Institute, Nagoya University
Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan
Fax: +81-52-789-3910
E-mail: isets05@esi.nagoya-u.ac.jp
<http://www.esi.nagoya-u.ac.jp/h/isets05/index.html>

3rd IASME / WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT

Corfu Island, Greece, August 20-22, 2005
Chairman
Prof. Mohamed Gad-el-Hak
Virginia Commonwealth University, Richmond, Virginia 23284-3015, U.S.A.
E-mail: gadelhak@vcu.edu
<http://www.worldses.org/conferences/2005/corfu/heat/index.html>

8th International Symposium on Fluid Control, Measurement and Visualization (8FLUCOME)

Chengdu, China, August 22-25, 2005
Prof. Qing-Ding WEI,
Chairman of FLUCOME2005
Department of Mechanics and Engineering

Science
Peking University
Beijing 100871, China
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The Sixteenth International Symposium on Transport Phenomena (ISTP- 16)

Prague, Czech Republic, August 29 - September 1, 2005
Chairmen
Prof. Jan Jezek
Czech Technical University in Prague
Faculty of Mechanical Engineering
Division of Fluid Mech. and Thermodynamics
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<http://www.fsid.cvut.cz/istp-16/>

4th World Congress on Industrial Process Tomography

Aizu, Japan, September 5-9, 2005
<http://www.vcipt.org.uk/wcipt4/>

6th International Symposium on Particle Image Velocimetry (PIV-05)

California Institute of Technology, Pasadena, California, USA, September 21-23, 2005
Chairman
Prof. Mory Ghairb
California Institute of Technology
E-mail: msalcedo@caltech.edu
<http://piv05.caltech.edu/>

Heat Transfer and Fluid Flow in Microscale

Il Ciocco, Castelvecchio Pascoli (Tuscany), Italy, September 25-30, 2005
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<http://www.engconfintl.org/5ah.html>

11th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH11)

Avignon, France, October 2-6, 2005
General Chair
Dr. Jean-Claude Bouchter, CEA-Saclay, France
E-mail: nureth11@cea.fr
<http://www.nureth11.com/>

International Conference on Jets, Wakes and Separated Flows (ICJWSF-2005)

Toba Hotel International, Toba-shi, Mie, Japan,
October 5-8, 2005
Chairperson
Prof. Toshihiko Shakouchi
Mie Univ., Japan
Tel: +81-59-231-9384, Fax: -9663
E-mail: shako@mach.mie-u.ac.jp
<http://www.ees.mach.mie-u.ac.jp/ICJWSF/>

Third International Conference on Computational Methods in Multiphase Flow 2005

Portland, Maine, USA, October 31-November 2, 2005
Conference Chairmen
Prof. C. A. Brebbia,
Wessex Institute of Technology, UK
Prof. A. A. Mammoli,
University of New Mexico, USA
<http://www.wessex.ac.uk/conferences/2005/mpf05/index.html>

ANS Winter Meeting and Nuclear Technology Expo

Omni Shoreham Hotel, Washington, D.C., November 13-17, 2005
General Chairs
Dr. Thomas A. Christopher, AREVA
Dr. Michael Wallace, Constellation Generation
<http://www.ans.org/meetings/docs/2005/wm2005-cfp.pdf>

2005 ASME International Mechanical Engineering Congress and Exposition (IMECE)

Orlando, Florida, USA, November 5-11, 2005
Prof. Michael J. Askew
E-mail: askewm@uakron.edu
<http://www.asmeconferences.org/Congress05/>

----- 2006 -----

The 18th National & 7th ISHMT/ASME Heat and Mass Transfer Conference

Indian Institute of Technology, Guwahati, India,
January 4-6, 2006
Chairman
Prof. P. S. Robi
Organizing Secretary
Prof. Subhash C. Mishra
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The Fifth World Congress on Particle Technology

Orlando, Florida, USA, April 23-27, 2006
Chair
Prof. George E. Klinzing
University of Pittsburgh
Tel: (+1) 412-624-0784
E-mail: confchair@wcpt5.org
<http://www.wcpt5.org/>

ANS Annual Meeting

Reno, NV, June 4-8, 2006
General Co-Chairs
Dr. Joseph Parrish, Energy Northwest
Dr. Louis E. Pardi, Washington Group International, Inc.
<http://www.ans.org/meetings/index.cgi?c=n>

Heat and Mass Transfer in Biotechnology TURKEY, June 2006 (organized by ICMHT)

The 13th International Heat Transfer Conference (IHTC-13)

Sydney, NSW, Australia, August 13-18, 2006
Chair
Prof. Graham de Vahl Davis
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The University of New South Wales
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<http://www.ihtc-13.com/>

The 5th International Conference for Conveying and Handling of Particulate Solids (CHoPS-05)

Hilton Hotel, Sorrento, Italy, August 27-31, 2006
Chair
Prof. Paolo Massacci
Tel: +39-06-44585-605
Fax: +39-06-44585-618
E-mail: paolo.massacci@uniroma1.it
<http://www.ortra.com/solids/>

IUTAM Symposium 2006 NAGOYA, "Computational Physics and New Perspectives in Turbulence"

Integrated Building in Nagoya University, Nagoya, Japan, September 11-14, 2006
E-mail: iutam-nagoya@fluid.cse.nagoya-u.ac.jp
<http://www.fluid.cse.nagoya-u.ac.jp/%7Ekaned-lab/iutam2006/>

17th International Symposium on Transport Phenomena (ISTP-17)

Toyama International Conference Center, September 17-21, 2006
Chairman
Prof. Masaru Ishizuka, Toyama Prefectural University
Department of Mechanical Systems Engineering
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<http://www.pac.ne.jp/istp17/>

ANS Winter Meeting and Nuclear Technology Expo

Albuquerque, NM, November 12-16, 2006
<http://www.ans.org/meetings/>

----- 2007 -----

6th International Conference on Multiphase Flow Leipzig, July 9-13, 2007

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