

Important Dates

- July 1, 2010: Deadline for presentation submission.
July 31, 2010: **Deadline for presentation has been extended.**
Please present your paper title /author's name/
Keywords submission through PRESENTATION
SUBMISSION page of ICFD2010 website.
- Sep. 3, 2010: Deadline for short paper (A4, 2 pages)
Submission
Please submit your paper through PAPER
SUBMISSION page of ICFD2010 website.
- Oct. 1, 2010: Deadline for registration.

Executive Committee Members

Masami Nakano (ICFD2010 Chair, Tohoku University)
Jun Ishimoto (AFI/TFI Chair, Tohoku University)
Toshiyuki Takagi (CEO of ICFD2010, Tohoku University)
Toshiyuki Hayase (Director of Institute of Fluid Science,
Tohoku University)
Shigenao Maruyama (General Chair, Tohoku University)

Organizing Committee Members

Hideyuki Aoki	Shigeru Obayashi
Keisuke Asai	Taku Ohara
Shinji Ebara	Katsuhide Ohira
Yu Fukunishi	Makoto Ohta
Hidetoshi Hashizume	Seiji Samukawa
Nozomu Hatakeyama	Mamiko Sasao
Yuka Iga	Kazuhisa Sato
Jun Ishimoto	Takehiko Sato
Takatoshi Ito	Keisuke Sawada
Tetsuya Kodama	Atsushi Shirai
Atsuki Komiya	Yuriko Takeshima
Kaoru Maruta	Takashi Tokumasu
Goro Masuya	Michio Tokuyama
Hiroyuki Miki	Tetsuya Uchimoto
Hideo Miura	Yutaka Watanabe
Takatoshi Miura	Shigeru Yonemura
Akira Miyamoto	Hideo Miura
Junichiro Mizusaki	Hiroo Yugami
Kazuhiro Nakahashi	Noritaka Yusa
Hideya Nishiyama	

International Scientific Committee Members

Australia	China
Masud Behnia	XinGang Liang
Gary Rosengarten	Xing Zhang
Canada	France
Javad Mostaghimi	Patrick Bourgin

Jean-Yves Cavaille
Philippe Kapsa
Germany
Serge A. Shapiro
Italy
Gian Piero Celata
Japan
Yu Fukunishi
Masato Furukawa
Nobuhide Kasagi
Chisachi Kato
Shigenao Maruyama
Yoichiro Matsumoto
Junichiro Mizusaki
Kazuhiro Nakahashi
Masami Nakano
Tomohide Niimi
Hideya Nishiyama
Masaki Sano
Akihiro Sasoh
Masaaki Sato
Toshiyuki Takagi
Michio Tokuyama

Takashi Yabe
Satoru Yamamoto
Korea
Sang Hee Hong
Joon-Hyun Lee
Joon Sik Lee
Hyung Jin Sung
Russia
Mikhail Ivanov
Alexander Vasiliev
Sweden
Fredrik Lundell
Switzerland
Bastien Chopard
Dimos Poulikakos
USA
Louis N. Cattafesta III
Hiroshi Higuchi
Yiguang Ju
Kozo Saito
John P. Sullivan
Rongia Tao
Satish Udpa

Organized and Sponsored by:

Tohoku University Global COE Program, "World Center of
Education and Research for Trans-disciplinary Flow Dynamics"
Institute of Fluid Science, Tohoku University

In Cooperation with:

The Japan Society of Mechanical Engineers
The Japan Society of Applied Physics
Japan Society of Maintenology
The Japan Society for Computational Engineering and Science
The Japan Society of Applied Electromagnetics and Mechanics
Cryogenics Association of Japan
The Japan Society of Fluid Mechanics
Atomic Energy Agency of Japan Computational Science and
Engineering Division
The International Centre for Heat and Mass Transfer
Japan Society for Aeronautical and Space Sciences

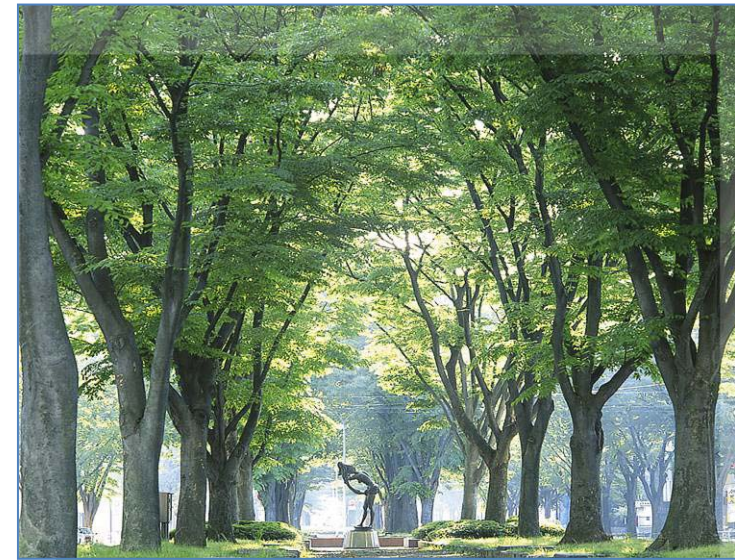
ICFD Secretariat

For further details and related questions, please contact
ICFD2010 Secretariat

icfd2010@gcoe.ifs.tohoku.ac.jp

ICFD2010 Secretariat, Institute of Fluid Science,
Tohoku University,
2-1-1, Katahira, Aoba, Sendai, 980-8577, JAPAN
TEL&FAX: +81-22-217-5301

<http://www.ifs.tohoku.ac.jp/gcoe/index-e.html>



Seventh International Conference on Flow Dynamics

Second Circular

http://www.ifs.tohoku.ac.jp/gcoe/ICFD_html/ICFD2010_html

Sponsored by

Tohoku University Global COE Program
"World Center of Education and Research for
Trans-disciplinary Flow Dynamics"



November 1st – 3rd, 2010
Sendai International Center
Sendai, Japan

<http://www.sira.or.jp/icenter/english/index.html>

As of Sep.6, 2010

SCOPE

The Seventh International Conference on Flow Dynamics (ICFD2010) in the annual series will be held at Sendai International Center in Sendai, Japan from November 1st to 3rd, 2010, which is fully supported by Tohoku University Global COE Program: World Center of Education and Research for Trans-disciplinary Flow Dynamics. The objectives of this conference are not only to explore new science horizon and exchange cutting edge technologies of "Flow Dynamics", but also to provide young researchers and students with unique opportunities of education and self-development.

"Flow Dynamics" is a comprehensive scientific field which deals with the flow and transport phenomena concerning to any fluid, any material, energy and information. The Scope of this conference covers the fluid, thermal, material, molecular and quantum dynamics of the multi-scale flows ranging from nano-scale flows such as behaviors of molecules, atoms, ions and electrons, to gigantic scale flows such as solar radiation, air-flow, multi-phase flow and typhoon on earth, oceanic flow and volcanic flow.

On behalf of the organizing committee, we cordially invite scholars, researchers, engineers, educationists and planners in the related research and development fields of bio-, nano-, energy and environmental science and technologies, mechanical engineering, aerospace engineering, nuclear engineering, physics, medical science, chemistry, chemical engineering, etc, to participate in the conference.

We are looking forward to seeing you in Sendai on November 1st to 3rd, 2010.

Plenary Lectures

Prof. Kozo SAITO (*University of Kentucky, USA*)
Title: "Hitozukuri and Monozukuri: Centuries' Old Eastern Philosophy to Seek Harmony with Nature"

Prof. Dimos POULIKAKOS (*ETH Zurich, Switzerland*)
Title: "Toward Green IT: Petaflop Supercomputers Cooled with Warm Water Combine Microcooling Technologies with Waste Heat Reuse and set a new Norm"

Prof. Javad MOSTAGHIMI (*University of Toronto, Canada*)
Title: "Radio Frequency Thermal Plasma: The Cutting Edge Technology in Production of Single-Walled Carbon Nanotubes"

Sessions

This conference consists of the following professional sessions. If you have questions and requests about the session of your interest, please contact the ICFD2010 secretariat (icfd2010@gcoe.ifs.tohoku.ac.jp).

General Session:

GS1: General Session on Multi-Scale Flow Dynamics
Organizer: M. Nakano, T. Sato (Tohoku University)

Organized Sessions:

OS1: Fluid Dynamics Aspects of Environmentally Advantageous Hybrid Rockets
Organizer: T. Shimada (JAXA), K. Sawada (Tohoku University)

OS2: Aviation Research in Aspects of Environment
Organizer: S. Obayashi, K. Asai (Tohoku University) and S. Watanabe (JAXA)

OS3: Advanced Control of Smart Fluids and Fluid Flows
Organizer: M. Nakano, Y. Fukunishi (Tohoku University)

OS4: Flow Dynamics in Fluid Machinery
Organizer: T. Ikohagi, S. Yamamoto (Tohoku University) and M. Nohmi (Ebara Corporation)

OS5: Molecular and Nanoscale Phenomena in Fluids and Interfaces
Organizer: T. Ohara (Tohoku University), M. Shibahara (Osaka University)

OS6: Flow Dynamics in Thermal Science & Technology
Organizer: S. Maruyama, T. Ohara (Tohoku University)

OS7: The Sixth International Students / Young Birds Seminar on Multi-Scale Flow Dynamics

Planned Sessions: (General papers will not be accepted.)

PS1: Workshop on Sustainable Atomization and Spray Technology (AFI/TFI-2010)
Organizer: J. Ishimoto (Tohoku University)

PS2: Workshop on Functional Plasma Flow Dynamics and its Systems
Organizer: H. Nishiyama (Tohoku University), Y. Okuno (Tokyo Institute of Technology) and M. Tanaka (Osaka University)

PS3: International Seminar on Maintenance Science and Technology for Nuclear Power Plants
Organizer: T. Takagi, H. Hashizume (Tohoku University),

PS4: 4th Functionality DEsign of the COntact Dynamics: (DECO2010)
Organizer: T. Takagi, H. Miki (Tohoku University) and Julien Fontaine (LTDS, France)

PS5: IFS Collaborative Research Forum (AFI/TFI-2010)
Organizer: J. Ishimoto (Tohoku University)

PS6: Alumni Session
Organizer: S. Maruyama (Tohoku University)

PS7: Liaison Office Session
Organizer: T. Takagi, M. Ohta (Tohoku University)

Publication in Special Issues of Three International Journals

Proceedings will be published. Selected papers are to be published as the special issues of "Journal of Fluid Science and Technology (JFST)", "Journal of Thermal Science and Technology (JTST)" and "E-Journal of Advanced Maintenance (EJAM)" after the conference. Please visit ICFD2010 website for the details.
http://www.ifs.tohoku.ac.jp/gcoe/ICFD_html/ICFD2010_html/index.html

Registration Fee

Registration Fee: Free
Banquet Fee: General 3,000 JPY
Student 1,000 JPY

Location

The conference will be held at Sendai International Center in Sendai. (<http://www.sira.or.jp/center/english/index.html>)
Aobayama, Aoba, Sendai, 980-0856 TEL:+81-22-265-2211



Sendai International Center