

Executive Committee Members

Yuka Iga (General Co-Chair of ICFD2026,
Tohoku University)

Mohamed Farhat (General Co-Chair of ICFD2026,
EPFL)

Takehiko Sato (Director of IFS, Tohoku University)

International Scientific Committee Members

Chair: Kaoru Maruta

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Masud Behnia
Chingyao Chen
Zheng Chen
Zhenmao Chen
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Kentaro Doi
Yuji Hattori
Chih-Yung Huang
Jun Ishimoto
Nam Il Kim
Kazunori Kuwana
Ying-Hao Liao
Yao-Hsien Liu
Hiroki Nagai
Makoto Ohta
Takehiko Sato
Masaya Shigeta
Hyung Jin Sung
Takashi Tokumasu
Tetsuya Uchimoto
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Jean-Yves Cavallé
Bastien Chopard
Philippe Dagaut
Vincent Fridrici
Alexis Giauque
Fredrik Lundell
Gael Sebald

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Hong G. Im

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Yiguang Ju
Javad Mostaghimi
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Weihua Li
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Organizing Committee Members

Chair: Makoto Hirota (Chair)

Yoshiaki Abe
Yuka Iga
Atsuki Komiya
Kaoru Maruta

Hisanori Masuda
Takehiko Sato
Yutaka Sato
Megumi Takahashi

Conference Venue

ICFD2026 will be held at Sendai International Center as
an in-person conference, with some sessions available
online. (More details on our website.)

Sendai International Center

Aobayama, Aoba-ku, Sendai, 980-0856

TEL (81)22-265-2211

<http://www.aobayama.jp/english/>

Registration Fee

Due Date (Japan Standard Time)	Registration Fee
Early Registration (on or before Aug. 31, 2026)	General 30,000 JPY Student 6,000 JPY
On-site Registration Fee (from Sep. 1, 2026 to Nov. 5, 2026, inclusive)	General 50,000 JPY Student 10,000 JPY

Due Date (Japan Standard Time)	Banquet Fee
Banquet Registration (on or before Sep. 30, 2026)	General 12,000 JPY Student 7,000 JPY

All participants are required to make a registration
through the website.

Important Dates

June 15, 2026: Deadline for **Title Submission**.

July 21, 2026: Deadline for **Paper Submission**

Aug. 31, 2026: Deadline for **Early Registration**

Publication

The proceedings will be available for download from
November 9, 2026 to December 31, 2026. The password and
URL will be provided to all participants on November 9, 2026.

ICFD Secretariat

For further details and related questions, please contact
ICFD2026 Secretariat: [icfd2026-ifs\[at\]grp.tohoku.ac.jp](mailto:icfd2026-ifs[at]grp.tohoku.ac.jp)
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The 23rd International Conference on Flow Dynamics

Second Circular

As of Apr. 1, 2026

<https://www.ifs.tohoku.ac.jp/icfd/2026/index.html>

Organized by
Executive Committee of ICFD

Supported by
Institute of Fluid Science,
Tohoku University

November 9 - 12, 2026



SCOPE

The 23rd International Conference on Flow Dynamics (ICFD2026), part of an annual conference series established in 2004, will be held from November 9 to 12, 2026, in Sendai, Japan. The objective of ICFD2026 is to explore new horizons in science and technology related to Flow Dynamics through discussions and information exchange on advanced scientific research and cutting-edge technologies. ICFD is widely recognized by researchers and engineers worldwide as one of the largest and most important international conferences in the field of Flow Dynamics. It has also played a significant role in promoting international research collaborations. In particular, ICFD2026 will focus on energy-related topics, including clean energy, hydrogen energy, and natural energy. In addition, ICFD provides young researchers and students with unique opportunities for professional development through active participation in the conference, and outstanding contributions by young researchers and students are encouraged through awards.

The first nine ICFDs were hosted under two Tohoku University COE Programs: the 21st Century International COE on Fluid Dynamics (21COE, 2003–2007) and its successor, the Global COE Program World Center of Education and Research for Trans-disciplinary Flow Dynamics (GCOE, 2008–2012). Both programs were organized by the Institute of Fluid Science (IFS), Tohoku University. Following the completion of the GCOE program in March 2013, IFS was reorganized, on the occasion of its 70th anniversary, into a more comprehensive research institute, particularly strengthening its activities in energy-related research through the establishment of three new research divisions and an Innovative Energy Research Center. In this context, IFS decided to continue supporting the ICFD conference series, and ICFD has been held annually since 2013. We are committed to maintaining the dynamism and spirit of ICFD as a forum for both distinguished scientists in Flow Dynamics and future generations of scientists and engineers.

Flow Dynamics, as a core component of Integrated Flow Science, focuses on the study of flow and transport phenomena involving electrons, molecules, nanoscale particles, and continuum fluids with or without chemical reactions, as well as materials, energy, information, and related systems. ICFD is expected to play a significant role in promoting Flow Dynamics as a major academic discipline capable of addressing critical challenges faced by human society, such as energy issues, global warming, resource sustainability, declining birthrates and aging populations, disease-related problems, and disaster prevention. We invite all scientists and engineers working in or interested in these areas to participate in ICFD2026, expand their research frontiers, and strengthen international research networks.

ICFD serves as a platform for discussion aimed at achieving scientific understanding and engineering solutions to a wide range of flow-related problems. Relevant research topics include, but are not limited to:

Energy/ Combustion/ Turbulence/ Multiphase flow/ Interfaces/ Microfluidics/ Functional fluids/ Supercritical fluids/ Thermoacoustics/ Thermal control/ Materials/ Biology/ Soft matter/ Pollutants/ Microphysiology/ Oncology/ Semiconductors/ Rocket propulsion/ Aerosciences/ Digital transformation/ MSBS/ PSP/TSP

ICFD2026 also welcomes discussion related to philosophy in the age of AI to bridge the gap between science and society.

We cordially invite researchers, educators, students, and engineers to participate in ICFD2026. We are confident that you will enjoy both the stimulating academic discussions and the beautiful autumn atmosphere of Sendai, as mid-November is one of the most pleasant seasons in the city.

Dr. Yuka Iga, Tohoku University and
 Dr. Mohamed Farhat, EPFL
 General Co-Chairs, ICFD2026

Plenary Lectures

Prof. Jiro Kasahara (Nagoya University)
 Prof. Assaad Masri (The University of Sydney)
 Prof. Gwo-Bin Lee (National Tsing Hua University)

Sessions

Symposium / Workshop / Organized Sessions:

- OS1: The Fourth International Symposium on Integrated Flow Science I & III Advanced Materials and its Energy Application**
 Organizer: S. Samukawa
 Integrated Multiphase Flow and Energy Science with Manufacturing Innovation
 Organizer: J. Ishimoto
- OS2: The Fourth International Symposium on Integrated Flow Science II Combustion Technology and Fundamentals**
 Co-Organizers: K. Maruta, and TBD
- OS3: The Fourth International Symposium on Integrated Flow Science IV Advanced Semiconductor and Digital Transformation**
 Co-Organizers: K. Endo, D. Ohori
- OS4: Quasi-droplet Science**
 Co-Organizers: T. Sato, K. Urashima, K. Tachibana, S. Liu
- OS5: Advanced Applications of Multi-functional Fluids**
 Co-Organizers: H. Takana, T. Fujino, K. Doi, N. Takeuchi
- OS6: Free Flight Experiment with MSBS and Ballistic Range**
 Co-Organizers: K. Seo, H. Nagai, K. Ueno
- OS7: Advances in Computational and Experimental Aerosciences: From Numerics to Physics**
 Co-Organizers: Y. Abe, A. Yakeno, F. D. Witherden, T. Haga, K. Otsuka, J. S. Park, B.C. Vermeire, N. Tsushima, S. Yatsuyanagi
- OS8: Advanced Physical Stimuli and Biological Responses: Promotion of Collaborative Research**
 Co-Organizers: Y.-C. Cheng, H.-Y. Angie Wang, C. H. Dylan Tsai, S. Liu, K. Tachibana, K. Takahashi, T. Sato
- OS9: Biomedical Flow Dynamics**
 Co-Organizers: H. Anzai, M. Zhang, K. Takashima, T. Nakayama, A. Qiao, M. Ohta

- OS10: Two-Phase Thermal Control Technology**
 Co-Organizers: K. Odagiri, M. Nishikawara, H. Nagai
- OS11: Microfluidics and Microphysiological Modeling**
 Co-Organizers: K. Funamoto, T. Fukui, T. Omori, E. Corvera Poiré
- OS12: Complex Thermofluid System**
 Co-Organizers: C.-Y. Chen, Y.-H. Liu, Y.-H. Liao
- OS13: Flow and Energy**
 Co-Organizers: T. Yamagata, S. Iio, S. Funatani, A. Komiya
- OS14: Innovations in Oncology**
 Co-Organizers: C. Moyret-Lalle, C. Rivière, J.-P. Rieu, F. Hollande, N. Aznar, K. Funamoto
- OS15: Turbulence: from Fundamentals to Applications**
 Co-Organizers: Y. Hattori, T. Ishihara, Y. Tsuji, A. Yakeno
- OS16: Vortex Motion**
 Co-Organizers: Y. Hattori, S. Llewellyn Smith
- OS17: Supercritical Fluid**
 Co-Organizers: Y. Kanda, R. Yu, H. Yingxue, L. Chen, A. Komiya
- OS18: Flow measurements using PSP/TSP technique**
 Co-Organizers: C.-Y. Huang, Y. Egami, Y. Matsuda, H. Nagai
- OS19: Multiphase Thermal Fluid Flow and Its Interface Dynamics**
 Co-Organizers: J. Okajima, T. Okabe, M. Shirota
- OS20: Multiphysics in Fluid Mechanics**
 Co-Organizers: M. Shigeta, M. Tanaka, Y. Saito, Y. Inada, H. Muneoka, N. Kodama, H. Komen, M. Hirota
- OS21: Complex Flows**
 Co-Organizers: K. Funamoto, Y. Tagawa, T. Tsuji
- OS22: Fundamentals and Applications of Thermoacoustics**
 Co-Organizers: T. Biwa, E. Luo, Y. Ueda, S. Zhu, G. Chen
- OS23: Beyond ammonia: sustainable fuels and pollution issues**
 Organizer: P. Dagaut
- OS24: Liaison Office Session**
 Co-Organizers: M. Ohta, T. Uchimoto, T. Tokumasu, A. Komiya
- OS25: The 22nd International Students / Young Birds Seminar on Multi-scale Flow Dynamics**
 Co-Organizers: TBD
 Supervisors: Y. Kanda, T. Ikami, Y. Kaneko, K. Kanayama
- OS26: The 26th International Symposium on Advanced Fluid Information (AFI-2026)**
 > IFS Collaborative Research Forum
 Co-Organizers: H. Masuda, Y. Iga
 > Fluids Science Research Award Lecture
- OS27: IFS Lyon Center Collaborative Research Forum**
 Co-Organizers: M. Ohta, T. Uchimoto
- OS28: 13th Japan-South Africa Bilateral Workshop**
 Co-Organizers: T. Kodama, A. Komiya
- OS29: Singapore-Japan bilateral workshop on Sustainability**
 Co-Organizers: H. Zhang, Y. Morii