

TFEC9



The Ninth JSME-KSME

Thermal and Fluids Engineering Conference

October 28-30, 2017, Okinawa, Japan

<http://www.tfec9.org>

Call for Abstracts

Photo: Shisa (Okinawan lion statue) on a tiled roof
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Background

Thermal and fluids phenomena are associated with a variety of interesting fields of science and engineering such as energy generation, conversion and transport, environmental pollution, and moving vehicles. The subject bearing such an importance to the welfare of mankind, many researchers have been and will be attracted to the challenging problems in thermal and fluids engineering.

Recognizing the needs for stimulation of the exchange of ideas and results, both Societies of Mechanical Engineers in Japan and Korea agreed to provide a conference for such an exchange. The first KSME-JSME Thermal and Fluids Engineering Conference was started in 1988 in Seoul. After the successful meeting, both Societies agreed to hold conferences separately for thermal and fluids engineering from the Second. For the Fluids Engineering Conference, the Second was held in 1990 in Seoul, the Third in 1994 in Sendai, the Fourth in 1998 in Busan, and the Fifth in 2002 in Nagoya. For the Thermal Engineering Conference, the Second was held in 1992 in Kitakyushu, the Third in 1996 in Gyeongju, and the Fourth in 2000 in Kobe. Both Societies agreed to reunite two separate conferences into one conference from the Sixth KSME-JSME Thermal and Fluids Engineering Conference (TFEC6), which was held in Jeju in 2005, TFEC7 in Sapporo, Hokkaido in 2008 and TFEC8 in Songdo, Incheon in 2012.

The time has come to announce TFEC9. It will be held in Okinawa, October 28-30, 2017. In keeping with the tradition of previous conferences, TFEC9 will be open to those interested in the wide range of thermal and fluids engineering.

It is anticipated that TFEC9 will provide an opportunity for the research motivation as well as for furthering cooperation among the researchers in thermal and fluids engineering in both countries.

Scope

Papers in any aspects of thermal and fluids engineering are welcome for presentation at TFEC9. The list of scheduled organized sessions (OSs) can be found on the reverse side of this flyer.

Venue

Okinawa Convention Center, Okinawa, Japan

<http://www.oki-conven.jp/en/>



Okinawa Convention Center is located in the seaside area, Ginowan city, on the west coast of central Okinawa island, Japan. It is located about 14 kilometer north of Naha airport. The climate is mild: the average temperature in Okinawa in October is 25.2°C.

Plenary Lectures

Four plenary lectures given by the leading experts in different fields are scheduled. The plenary lecturers are scheduled as follow.

Prof. Hyung Hee Cho

Yonsei University, Korea (KSME-TED)

Prof. Yu Fukunishi

Tohoku University, Japan (JSME-FED)

Prof. Sang Woo Joo

Yeungnam University, Korea (KSME-FED)

Prof. Yasuyuki Takata

Kyushu University, Japan (JSME-TED)

Important Dates

Abstract (300 words) submission open	Nov. 1, 2016
Deadline for abstract submission	Feb. 1, 2017
Notification of abstract acceptance	Mar. 1, 2017
Extended Abstract (2-5 pages) due	May. 1, 2017
Notification of final acceptance	Jun. 1, 2017
Early-bird registration due	Jun. 16, 2017
Final Extended Abstract due	Jul. 1, 2017
Conference	Oct. 28-30, 2017

Organized Sessions (OSs)

About 30 organized sessions (OSs), formerly called Forums in the previous TFEC series, are scheduled for intensive discussion. The scheduled OSs are as follow.

Thermal and Fluids Engineering

TF01: Optimal Design/Control of Thermal Systems and Fluid Flows

TF02: Turbulent Mixing and Diffusion

Thermal Engineering

T01: Advanced Technology in Ground Source Heat Utilization Systems

T02: Advances in Electronics Cooling and Thermal Management

T03: Aerospace Thermal Management

T04: Biotransport and Biothermal Engineering

T05: Combustion Fundamentals for Future Energy Systems

T06: Combustion Research for industrial applications

T07: External Heat Engines & Waste Heat Recovery

T08: Fire and Explosion

T09: Fuel Cells and Batteries

T10: Molecular Simulation

T11: Multidisciplinary Approach in Thermal and Fluids Engineering by Leading-edge Measurement Technique

T12: Next Step of Solidification/Crystal Growth and Melting

T13: Plasma Processing

T14: Recent Development of Biomass Conversion Technology

T15: Recent Developments on Boiling, Condensation and Multi-Phase Flow

T16: Thermal Radiation

T17: Thermophysical Properties Measurements

T18: General Session (**Thermal** Engineering)

Fluids Engineering

F01: Advances in Image-Based Measurement

F02: Advances in Thermo-Fluids Technology in Automobiles and Industrial Machinery

F03: Bio-Fluid Mechanics and Biomimetics

F04: Computational and Experimental Multiphase Flow Research

F05: Fluid Machinery and Systems

F06: Fluid Machinery for Renewable Energy

F07: Functional Fluids and Their Advanced Applications

F08: High-Speed flow

F09: Jets, Wakes and Separated Flows

F10: Micro/Nano Fluids

F11: Non-Newtonian Fluid Mechanics

F12: Wall Turbulence

F13: General Session (**Fluids** Engineering)

On submission of abstract, please select one OS suitable to your contribution. If you think none of them are suitable, please select **General Session (T18 or F13)**.

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Questions? Please contact info@tfec9.org