

THE 26TH INTERNATIONAL CONGRESS OF THEORETICAL AND APPLIED MECHANICS

2024 DAEGU, KOREA

25^{SUN} - 30^{FRI} AUGUST 2024

THE 100™ANNIVERSARY OF ICTAM

Special issues celebrating the centennial ICTAM

















A-Solids

























Journal of









Physical Review Fluids**





Pending official publication agreements. Additional journals are under consideration.

- International Journal of Multiphase Flow will publish articles in regular issues with a heading that it is selected for publication from the presentation at the ICTAM 2024 after the same rigorous review process of the journal.
- Physical Review Fluids— the official journal of the American Physical Society devoted to the discovery of new physical phenomena in fluid dynamics— will collaborate with ICTAM 2024 and publish a collection of papers by some of the invited speakers, spread over several regular issues.















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Introduction

ICTAM has been held every four years since its establishment in 1924 and is known as the Olympics of mechanics, which is the core field of engineering. The conference is the world's most prestigious conference with as many as 5,000 participants and is systematically operated by an international organization called IUTAM.

Important Dates	
Extended Abstract Submission	September 1, 2023 ~ January 15, 2024
Notification of Acceptance	April 22, 2024
Program Open	May 31, 2024
Standard Registration Deadline	June 30, 2024



Thematic Session & Mini Symposia Topics

Thematic Session

Fluids topics

FM01 Biological Fluid Mechanics

FM02 Boundary Layers

FM03 Zero-Emission Combustion

FM04 Compressible Flow

FM05 Convection

FM06 Drops, Bubbles and Interfaces

FM07 Multiphase and Particle-Laden Flows

FM08 Flow Instability and Transition

FM09 Thin flim flows

FM10 Geophysical and Environmental Fluid Dynamics

FM11 Low Reynolds Number Flows and Suspension

FM12 Micro-and Nano-Fluidics

FM13 Non-Newtonian and Complex Fluids

FM14 Computational Fluid Dynamics

FM15 Turbulence

FM16 Vortex Dynamics

FM17 Waves in Fluids

FM18 Electro-and Magneto-Hydrodynamics

Fluids / Solids topics

FS01 Acoustics

FS02 Emerging Experimental Techniques Across the Length and Time Scales

FS03 Nonlinear Dynamics and Pattern Formation

FS04 Porous Media and Liquid Foam

FS05 Fluid Structure Interactions

FS06 Granular Materials and Flows

FS07 Optimization for Solids and Fluids

FS08 Education in Mechanics

FS09 Reduced Order Modeling of Fluids and Solids

Solids topics

SM01 Biomechanics and Biomaterials

SM02 Tribology-Contact and Friction

SM03 Elasticity

SM04 Damage & Fracture Mechanics

SM05 Geomechanics and Geophysics

SM06 Impact Mechanics and Wave Propagation

SM07 Multi-Component, Composites and Hierarchical Materials

SM08 Phase Transformations and Thermomechanical Phenomena

SM09 Additive Manufacturing

SM10 Multibody and Vehicle Dynamics

SM11 Nanostructures and MEMS

SM12 Plasticity, Viscoplasticity and Creep

SM13 Stability and Instability of Materials and Structures

SM14 Computational Solid Mechanics

SM15 Vibrations and Control of Structures

SM16 Soft Materials and Extremely Deformable Structures

SM17 Metamaterials Architectured Materials and Topology Optimization

SM18 Nonlinear Dynamics for Design

Mini Symposia

MS01 Chemo-Mechanics and Materials for Energy Conversion and Storage

MS02 Soft Matter, Theory Meets Experiment

MS03 Nonlinear Mechanical Models for Biological and Bioinspired Materials

MS04 Mechanics in Health and Sport

MS05 Data-Driven Mechanics and Artificial Intelligence

MS06 Fluid Dynamics of Disease Transmission

MS07 Non-Reacting and Reacting Fluid Dynamics for Sustainable Propulsion

MS08 Fluid Mechanical Challenges for Sustainability & Climate Change



Venue & Attractions

UNESCO World Heritages near the conference venue





Hahoe Village

Living Heritage which has well-maintaind Korean raditional architecture



Haeinsa Temple Janggyeong Panjeon, the Depositories for the Tripitaka Koreana Woodblocks

The world's only tripitaka depository

KOREA



Seokguram Grotto and Bulguksa Temple

A masterpiece that shows essence of ancient Korean



Conference Venue

EXCO (Daegu Exhibition & Convention Center), Korea's leading, purpose-built, world-class exhibition and convention venue