

THE 26TH INTERNATIONAL CONGRESS OF
THEORETICAL AND APPLIED MECHANICS

Website



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ICTAM

25^{SUN} - 30^{FRI} AUGUST 2024 | DAEGU, KOREA**THE 100th ANNIVERSARY OF ICTAM**

Call for Papers

ICTAM has been held every four years since its establishment in 1924 and is known as the Olympics of mechanics, 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 the international organization IUTAM. ICTAM 2024 invites you to submit an extended abstract for the upcoming world **conference, August 25-30, 2024 in Daegu, Republic of Korea**. Congress participants are encouraged to submit papers on innovative research in fluids, fluids-solids, and solids. The paper should present material that is novel and preferably unpublished at the time of the Congress. Submission of an extended abstract should be performed on the Congress website.

The extended abstract will be evaluated by the International Papers Committee. To ensure a fair and efficient evaluation process, we kindly request that **all extended abstracts are prepared in PDF format and adhere to a strict page limit of 2 pages**. To submit an extended abstract, use the **online paper submission** function on the Congress website at

www.ictam2024.org

A template for the extended abstract is provided on the website. If you cannot access the website, please ask for instructions by sending an e-mail to the secretariat (info@ictam2024.org).

Authors can **submit the extended abstract from September 1, 2023 to January 15, 2024**. Contributors will be **informed of the decision** of the International Papers Committee and the assignment of their papers to a session **after April 22, 2024**. Authors invited to present are expected to register and present papers in person at the Congress.

Congress special issues

The XCCC of IUTAM and LOC have decided to print special issues of prestigious journals. Therefore, authors whose abstracts are accepted for presentation at ICTAM2024 will be invited to submit a review article, full-length manuscript, or short communication for consideration of publication in these special issues.



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



Plenary Lectures



Opening Lecture
Distinguished Prof. Yoon Young Kim
 Seoul National Univ, Korea

Exotic anisotropic metamaterials for novel manipulation of elastic waves



Closing Lecture
Dr. Berengere Dubrulle
 CNRS, France

Turbulence at the Kolmogorov scale

Hill Prize Lecture (TBD)

Batchelor Lecture (TBD)



Sectional Lectures

Fluids

Prof. Anke Lindner (PMMH-ESPCI/Université Paris Cité, France)
Prof. Lydia Bourouiba (Massachusetts Institute of Technology, USA)
Prof. Haecheon Choi (Seoul National University, Korea)
Prof. Gautam Biswas (Indian Institute of Technology Kanpur, India)
Prof. Anne-Virginie Salsac (Université de Technologie de Compiègne, France)
Prof. Jacques Magnaudet (CNRS / IMFT, France)
Prof. Guowei He (Institute of Mechanics Chinese Academy of Sciences, China)
Prof. Gareth McKinley (Massachusetts Institute of Technology, USA)

Solids

Prof. Ellen M. Arruda (University of Michigan, USA)
Prof. Ferdinando Auricchio (University of Pavia, Italy)
Prof. Nicolas Moës (Ecole Centrale de Nantes, France)
Prof. Alan Cocks (University of Oxford, UK)
Prof. Claudia Comi (Politecnico di Milano, Italy)
Prof. Stanisław Stupkiewicz (IPPT PAN, Poland)
Research Prof. François Hild (University Paris-Saclay, France)
Prof. Henrik Myhre Jensen (Aarhus University, Denmark)



Thematic Sessions & Mini Symposia Topics

Thematic Sessions

Fluid 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 film 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

Fluid / Solid 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

Solid 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 architected 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 systems
 MS08 Fluid mechanical challenges for sustainability & climate change