

Important Dates

Abstract submission **31.01.2025**

Notification of acceptance **15.03.2025**

Early registration **30.01.2025**

Regular registration **15.04.2025**

Payment **01.05.2025**

Fees

Participants
2700 PLN

PTMKM
Members
2600 PLN

PhD Students
1800 PLN

Venue

The venue of the conference will be campus of the Lodz University of Technology located at The Politechnika Avenue.

Lodz has its airport (LCJ) with a few international connections with Brussels, Milano or London and is located close to the crossing of the highways A1 and A2. It is also easily accessible via fast train from the International Chopin Airport in Warsaw.



Łódź
City of Four Cultures

Design by Tomasz Waśniewski

Honorary Patronage:



Lodz University of Technology
Rector - prof. Krzysztof Jóźwik

Organising committee

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Faculty of Civil Engineering, Architecture and Environmental
Engineering

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Lodz University
of Technology



26th International Conference
On Computer Methods in Mechanics

July, 8-11, Łódź, Poland

www.cmm2025.p.lodz.pl

Organized by



Under auspices of:

Institute of Fundamental
Technological Research of
the Polish Academy of
Sciences

Committee on
Mechanics of the
Polish Academy of
Sciences

Committee on Civil
Engineering and
Hydroengineering of the
Polish Academy of
Sciences

Scientific Patronage:



Zienkiewicz Institute
for Modelling,
Data and AI



Scope and Objectives

The main objective of the Conference is to present and review the latest achievements in computer methods in mechanics. The four-day conference will be filled with a variety of session formats, with a balance of research and practice to permit the widest possible participation, providing an excellent forum to exchange ideas and to progress the field. The organizers hope that the Conference will be fruitful for the all participants.

The 26th International Conference on Computer Methods in Mechanics continues the 50-year-old series of conferences dedicated to numerical methods and their applications in the mechanics-based problems. The scientific meetings, organized biannually since 1973, provide a forum for presentation and discussion of new ideas referring to theoretical background and practical applications of computational mechanics.

Plenary lectures

prof. Chongmin Song, UNSW Sydney, Australia

prof. Michael Beer, Leibniz Universitaet Hannover, Germany

prof. Pol Spanos, Rice University, Houston, Texas, USA

prof. Chenfeng Li, Zienkiewicz Institute for Modelling, Data & AI, Swansea University, UK

prof. George Stefanou, Aristotle University in Thessaloniki, Greece

Prof. Nicholas Fantuzzi, University of Bologna, Italy

prof. Christian Hellmich, Technische Universitaet Wien, Austria

prof. Alberto Corigliano, Politecnico di Milano, Italy

Topics

Solid Mechanics

- Contact and Friction
- Damage Mechanics
- Elasticity, Plasticity, Viscoplasticity and Creep
- Fracture Mechanics
- Geophysics and Geomechanics
- Impact Mechanics and Wave Propagation
- Multi-component Materials and Composites
- Phase Transformations and Thermomechanical Phenomena
- Multibody, Vehicle and Structural Dynamics
- Nanostructures and MEMS
- Stability of Structures
- Vibrations and Control of Structures
- Other Topics in Solid Mechanics

Fluid Mechanics

- Biological Fluid Mechanics
- Boundary Layers
- Combustion and Flames
- Compressible Flow
- Convection
- Drops, Bubbles and Multiphase Flows
- Flow Instability and Transition
- Flow in Thin Films
- Geophysical and Environmental Fluid Dynamics
- Low Reynolds Number Flow
- Micro- and Nano-fluidics
- Non-Newtonian and Complex Fluids
- Turbulence, Vortex Dynamics
- Waves in Fluids
- Other Topics in Fluid Mechanics

Computational Mechanics

- Artificial intelligence methods
- Computational intelligence
- Sensitivity and reliability analysis
- Inverse problems and optimization
- Advanced Finite Element Method, Finite Volume Method and Boundary Element Method
- Discrete Element Method
- Meshless and related methods
- Stochastic Mechanics and Reliability
- Parallel computing
- Soft computing
- Exascale Computing
- Other Topics in Computational Mechanics

Solid/Fluid Interaction

- Acoustics
- Experimental Methods in Mechanics
- Chaos and Pattern Formation
- Porous Media
- Fluid Structure Interactions
- Actuating and Smart Materials
- Granular Materials and Flows
- Foams and Cellular

Advanced Materials Biomechanics

Interdisciplinary engineering

Proceedings

Accepted abstracts will be printed in the Conference Book of Abstracts in electronic copy. Full-length articles contributed by keynote speakers and chosen presented during Conference will be published in some major international Journals related to computational mechanics. The details will be provided later on the website.

Conference format

During the Conference, plenary and keynote lectures, joint sessions and parallel sessions, as well as oral and poster presentations, will be delivered in the auditoria and lecture rooms of Alchemium Conference Center and also Computer Technology Center, located both in campus of Lodz University of Technology.

Social events

Lodz is a vibrant and energetic academic city in the same heart of Poland. Social events at the TUL Sports Bay and trips to the Manufaktura center, EC 1 Lodz - Culture City hosting Science Center, and also Geyer's Gardens are planned. Close neighborhood of Piotrkowska Street with its huge number and diversity of restaurants and pubs is awaiting for the Conference Participants.

Chairmanship

Conference Honorary President

Michał Kleiber Polish Academy of Science

Chairman of the Honorary Scientific Committee

Tadeusz Burczyński Institute of Fundamental Technological Research of Polish Academy of Sciences

Chairmen of the Scientific Committee

Wojciech Sumelka Poznań University of Technology

Marcin Kamiński Lodz University of Technology

President of the Polish Association for Computational Mechanics

Wojciech Sumelka