

2026
FMC

XXVII FLUID MECHANICS CONFERENCE

23-26 JUNE 2026 - ŁÓDŹ - POLAND

Conference Topics

- Aerodynamics
- AI and machine learning in fluid mechanics
- Biological flows
- Combustion and reactive flows
- Computational fluid dynamics
- Environmental fluid mechanics
- Experimental methods in fluid mechanics
- Flow machinery
- Flow control and optimization
- Fluid-structure interaction
- General fluid dynamics
- Micro- and nanofluidics
- Multiphase flows and complex fluids
- Thermal-fluid problems
- Turbulence and transition

Important Dates

- 01.10.2025** - Start of online registration
23.01.2026 - Abstract submission deadline
16.02.2026 - Notification of abstract acceptance
31.03.2026 - Early bird registration deadline
31.05.2026 - End of registration
14.06.2026 - Deadline for payment

Venue

Institute of Physics
Lodz University of Technology
93-005 Łódź
ul. Wólczańska 217/221
Building B14

www.fmc2026.info.p.lodz.pl

fmc2026@info.p.lodz.pl

Plenary Lectures

Prof. Colm-cille P. Caulfield

University of Cambridge

Stratified Turbulence: Climate's Mysterious Mixer

Prof. Paul Cizmas

Texas A&M University

*Reduced-Order Models and Machine Learning
of Unsteady Flows*

Prof. Manuel García-Villalba

TU Wien

*Computational Modelling of Flow and Transport
Phenomena in the Left Atrium*

Prof. Ramis Örlü

Oslo Metropolitan University

*High-Resolution or High-Illusion? Revisiting the Role
of Hot-Wire Anemometry in Wall Turbulence*

Semi - Plenary Lectures

Dr Tomasz Bobiński

Warsaw University of Technology

*Nature-Inspired Cloaking Technology in Water
Waveguide Systems*

Prof. Paweł Flaszyński

Polish Academy of Sciences

*Shock Wave Boundary Layer Interactions
in Compressor Configurations*

Dr Michał Lipian

Lodz University of Technology

*Surrogate Modelling in the GPU Era: Rethinking
the Role of Low-Fidelity Aerodynamic Models*

Prof. Maciej Marek

Czestochowa University of Technology

Fluid Flow Through Randomly Packed Particles

Open Lecture

Prof. Szymon Malinowski

University of Warsaw

Fluid dynamics of Earth's climate

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Committee
for Mechanics



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European Research Community On
Flow, Turbulence And Combustion



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HANNA ZDANOWSKA



Lodz University
of Technology

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The project is financed from the state budget funds granted by the Minister of Science and Higher Education under the **Vectors of Science Programme**, pursuant to Agreement No. WNK/SP/0246/2025/01, entitled "International Conference XXVII Fluid Mechanics Conference (FMC 2026)".

Funding provided by the Ministry of Science and Higher Education: **PLN 165,220.00.**

Total project value: **PLN 256,120.00.**



Minister of Science and Higher Education
Republic of Poland



Minister Nauki
i Szkolnictwa Wyższego

2026
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XXVII FLUID MECHANICS CONFERENCE

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Open Lecture



Prof. Szymon Malinowski
University of Warsaw

Fluid dynamics of Earth's climate

Atmosphere and ocean are fluids. Fluids flow and carry heat, momentum, tracers. Their motion on rotating planet is governed by differences in absorption of solar energy in the form of shortwave electromagnetic radiation and emission of Earth's energy to space in form of infrared radiation. These are physical principles of weather and climate.

In the lecture, I will show simple, yet barely known physical foundations of climate science explaining recent anthropogenic climate change and climate projections for future.

**June 24, 2026, at 18:00 at the Institute of Physics
Lodz University of Technology**

Wólczańska 217/221

93-005 Łódź

Building B14

Ground floor - Auditorium 0.4

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Welcome to ŁÓDŹ



Located in the very heart of Poland, Łódź delights with its diverse attractions and unique atmosphere

Piotrkowska Street – the historical axis of Łódź, stretching 4.2 km, lined with numerous revitalized Art Nouveau tenement houses and former factories, monuments, and historical landmarks

Poznański Palace and the revitalized **Manufaktura** complex – formerly the largest textile factory in Łódź

Museum of Modern Art

The only **Museum of Cinematography** in Poland

Central **Museum of Textiles** – the most important of its kind in Central Europe

Łódź Film Trail – a tourist route dedicated to the city's cinematic heritage

EC1 Science and Technology Center

Marek Edelman Dialogue Center – a modern institution dedicated to memory, history, and the identity of Łódź as a city of four cultures

The Old Jewish Cemetery – a historic site, the largest Jewish cemetery in Poland and one of the largest in Europe

Księży Młyn – a revitalized 19th-century industrial housing estate, now a unique example of urban regeneration

Modern **Philharmonic Hall**

The best **Orientalium** in Poland

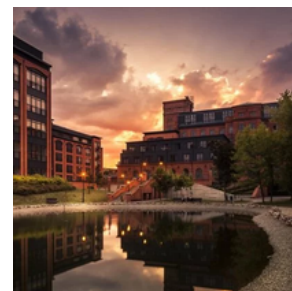
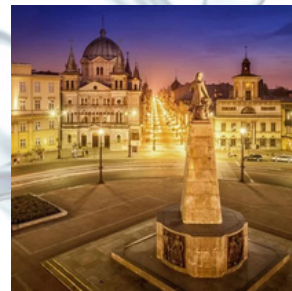
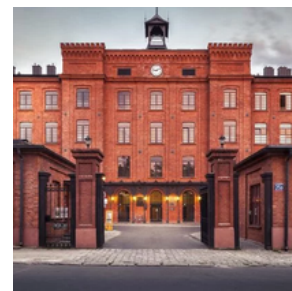
Botanical Garden and **Palm House**

Fala **Aquapark**

Modern **sports** and **entertainment arena**

Over 30 beautiful city **parks**, plus Łagiewnicki Forest

Dozens of cultural **festivals** and **reviews** held annually



Lodz University
of Technology



Lodz University of Technology enjoys a **high position in Poland** and **strengthens it on the international stage**, also thanks to its active membership in the **European Consortium of Innovative Universities (ECIU)**. In its 80-year tradition, TUL continuously improves the quality of education, conducts research, and responds to the needs of the socio-economic environment.

The university **offers education at the undergraduate, graduate, doctoral, and postgraduate levels**, and also develops the idea of Life Long Learning by offering classes at the University of the Third Age, a general secondary school, the Lodz Children's University, a kindergarten, and a nursery.

TUL is among the **20 Polish universities implementing the Excellence Initiative - Research University program**.

Unique Campus

Lodz University of Technology, has a **37-hectare campus** in the heart of the city, modern pavilions as well as revitalized, **post-industrial buildings** surrounded by **lush greenery**. Former villas and palaces of industrialists of a bygone era next to steel and glass structures.

Venue

FMC 2026 will be held in Łódź, at the **Institute of Physics**, Faculty of Technical Physics, Information Technology and Applied Mathematics, on the campus of the **Lodz University of Technology**.



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