



# Mathematics & Mechanics School

**January 12-14, 2025**  
**Wrocław University of Science and Technology, Building H-14**  
**Wrocław, Poland**

**Gala  
dinner**

**Conference  
venue**

**Wrocław University of Science and Technology, Building H-14**  
**Address: Wybrzeże Stanisława Wyspiańskiego 40**  
**Wrocław, Poland**

**Organizers**



GAMM – Gesellschaft für angewandte Mathematik und Mechanik

**Patrons**



GAMM President – Gesellschaft für angewandte Mathematik und Mechanik

[gpson2m.eu](http://gpson2m.eu)

Konferencja realizowana we współpracy z Ministerstwem Nauki i Szkolnictwa Wyższego  
 Conference organized in cooperation with the Ministry of Science and Higher Education



## Day 1 | January 12, 2025 | Sunday

17:00 – 19:00 Registration

19:00 – 22:00 Networking dinner

## Day 2 | January 13, 2025 | Monday

09:00 – 10:00 Registration & welcome coffee

10:00 – 10:30 **Opening** Prof. D. Łydzba, Prof. M. Kuczma – chairs of GPSON2M

Prof. A. Wójs, *Rector of Wrocław Tech*

Prof. M. Mrówczyńska, *Vice-Minister of Science*

Prof. M. Kleiber, *Chair of Polish Committee of UNESCO*

Prof. T. Jesionowski, *Rector of Poznań UT*

Prof. U. Staudinger, *Rector of TU Dresden*

Prof. K. Urban, *President of GAMM*

Prof. M. Ziegenhorn, *BTU Cottbus-Senftenberg*

10:30 – 12:30 **Session dedicated to the memory of Prof. Fritz Nöther**

10:30 – 11:00 Prof. Holm Altenbach, OVGU Magdeburg

*Fritz Nöther – a great Mathematician and victim of political arbitrariness*

11:00 – 11:30 Prof. Matthias Ziegenhorn, BTU Cottbus

*Investigations on the rolling sphere on a rotational surface – in memory of Fritz Nöther*

11:30 – 12:30 Prof. Janusz Badur, IMP PAN Gdańsk

12:30 – 13:30 **LUNCH**

13:30 – 17:00 **WORKSHOP: Computational engineering to drive innovations**

13:30 – 15:00 Prof. Michael Kaliske, TU Dresden

*Recent trends in simulating fracture and damage for concrete*

15:00 – 15:30 Coffee break & networking

15:30 – 17:00 Prof. Michael Kaliske, TU Dresden

*Computational methods in structural analysis for wooden structures*

17:30 – 18:30 **ROUNDTABLE DISCUSSION: Scientist and Science – their roles and responsibilities towards society and the environment**

19:00 – 23:00 **GALA DINNER**

## Day 3 | January 14, 2025 | Tuesday

08:00 – 09:00 Registration & morning coffee

09:00 – 12:30 **WORKSHOP: Numerical methods for PDEs, FEM, stability, convergence etc.**

09:00 – 10:30 Prof. Łukasz Płociniczak, Wrocław Tech

10:30 – 11:00 Coffee break & networking

11:00 – 12:30 Prof. Łukasz Płociniczak, Wrocław Tech

12:30 – 13:30 **LUNCH**

13:30 – 17:00 **WORKSHOP:**

**Artificial intelligence and machine learning methods in mechanical engineering**

13:30 – 15:00 Prof. Janusz Szwabiński, Wrocław Tech

15:00 – 15:30 Coffee break & networking

15:30 – 17:00 Prof. Janusz Szwabiński, Wrocław Tech

## Program Committee

Prof. Michał Kleiber

– Honorary Chair of the School, IFTR PAS

Prof. Dariusz Łydzba

– Co-Chair of the School, Vice-Rector for R&I, Wrocław Tech

Prof. Mieczysław Kuczma

– Co-Chair of the School, Chair of PS GAMM, Poznań UT

Prof. Marek Behr

– President of GACM, WTH Aachen University

Prof. Jerzy Kaczorowski

– Chair of the Committee of Mathematics of PAS, AMU Poznań

Prof. Michael Kaliske

– Secretary of GAMM, TU Dresden

Prof. Tomasz Krzyżyński

– President of PTMTS, Koszalin UT

Prof. Marcin Magdziarz

– Wrocław Tech

Prof. Jacek Mięksiz

– President of the Polish Mathematical Society, U of Warsaw

Prof. Błażej Skoczeń

– Chair of the Committee on Mechanics of PAS, Cracow UT

Prof. Wojciech Sumelka

– President of PACM, Vice-Rector for Research, Poznań UT

Prof. Ronald Tetzlaff

– Chief Officer Technology Transfer and International., TU Dresden

Prof. Karsten Urban

– President of GAMM, Ulm University

Prof. Peter Wriggers

– Ex-President of GAMM, Ex-Vice-Rector for Research, LU Hannover

Prof. Matthias Ziegenhorn

– BTU Cottbus-Senftenberg

**Conference Coordinator:** Anna Szymoniak, Innovation and Business Centre Wrocław Tech

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