

GAMM 2025 IN POZNAŃ

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The 95th Annual Conference of GAMM – GAMM 2025 – took place from April 7 to 11, 2025, at the Poznań University of Technology in Poznań. Professor Mieczysław Kuczma, chair of the local organizing team, opened the event by welcoming attendees, and outlining the timeline and the people whose efforts and endorsement led to his team being entrusted with organizing GAMM 2025. Professor Teofil Jesioniowski, Rector of Poznań University of Technology, welcomed guests and participants and presented the university. The conference was officially opened by Dr. Karolina Ziolo-Pużuk, State Secretary at the Polish Ministry of Science and Higher Education. Mrs. Katarzyna Kretkowska, Vice-Marshall of the Wielkopolska Region, also welcomed the participants. Professor Karsten Urban, President of GAMM, delivered a welcome address and presented the GAMM Juniors prizes and the von Mises Award. Dr. Giuseppe Capobianco spoke on behalf of the GAMM Juniors. The GAMM 2025 opening ceremony was highlighted by a superb performance by the PUT choir “Volantes Soni”, conducted by Dr. habil. Paweł Łuczak.

The GAMM 2025 Meeting upheld the cherished traditions of previous GAMM conferences while also introducing several new and distinctive highlights. These included the dedicated women’s networking event, the presentation of the GAMM Juniors at the opening ceremony, an opera performance, specialized technological sessions, collective tree planting, and a group photo, making the gathering, we hope, both memorable and forward-looking. It is worth noting that the GAMM conference took place in Poznań for the first time and for the third time in Poland (previously held in Kraków in 1991 and Gdańsk in 2009).

The GAMM 2025 conference was attended by 890 participants from 28 countries, who presented interesting papers and engaged in lively discussions on current research problems in the fields of mathematics and mechanics. The sessions took place at the Lecture and Conference Center on the Warta Campus of PUT. The scientific program included 8 plenary lectures, the Prandtl Lecture, the Public Lecture, 4 mini-symposia, 28 thematic sections, 6 Young Researchers’ mini-symposia, 5 sessions of DFG priority programs, a poster session, and 2 technological sessions. Renowned scientists were invited to give plenary lectures, including Professors: Leszek Demkowicz – *DPG Method on a New Road to Nonlinear Problems*; Lars Grüne – *Optimization-Based Control for Large-Scale and Complex Systems: When and Why Does it Work?*; Katharina Schratz – *Resonances as a computational tool*; Marie-Therese Wolfram – *Large in-*

teracting particle systems in the social and data sciences; Łukasz Madej – *Computational microstructure design: harnessing the synergy of numerical and experimental investigations*; Andreas Menzel – *A multiscale perspective on electrical conductivity*; Karen Veroy-Grepl – *Physics-Based Model Order Reduction in Digital Twins: Challenges and Opportunities in the Multi-Scale Material Setting*; Utz von Wagner – *On Nonlinear Oscillations*. Professor Cord-Christian Rossow was awarded the privilege of delivering the Prandtl Lecture – *100 years of Prandtl’s Mixing Length: falling short for aerodynamic analysis?* The von Mises Award was received by Dr. Kevin Linka – *Interpretable Data-Driven Constitutive Models: From Black Boxes to Insight*. The Public Lecture, delivered by Professor Andrzej Dragan – *Do quantum measurements affect the past?*, generated extraordinary interest, gathering around 1400 conference participants and young people in the Aula Magna and neighbouring lecture halls.

The scientific program was accompanied by many complementary events. On Monday evening, the Welcome Reception took place, officially opened by Professor Tomasz Łodygowski, co-chair of the local organizing team. The event began with a performance by the Folk Dance Ensemble of PUT “Poligrodzianie”. Afterwards, participants enjoyed local catering and had the opportunity to network in a relaxed and informal atmosphere. The conference dinner took place in the Earth Hall at the premises of the Poznań International Fair. A thematic music thematic session called “Macarena” spontaneously emerged, in which about 200 people (both young scholars and more experienced ones) demonstrated extraordinary harmonious cooperation. An important event alongside the already traditional YAMM Lunch organized by the GAMM Juniors (Dr. Evelyn Herberg) was the Women’s Networking Event, which was held for the first time in the series of GAMM conferences and attracted significant interest, with over 150 participants. The organizational concept for the Women’s Networking Event was developed by Charlotte Geier and Sonja Hellebrand. The organization of these two special events at the conference venue was handled by Dr. habil. Magdalena Łasecka-Plura, who served as the secretary of GAMM 2025 and conducted intensive correspondence with conference participants on a daily basis.

We have made great efforts to follow the recommendations and requirements of sustainable development. To highlight a few initiatives, 25 trees were planted on the premises of PUT, and 70 trees were planted by a Forest District near Poznań, leaving a lasting green mark for the 95th GAMM Annual Meeting – GAMM 2025. The booklet



"General Information and Daily Programme" was available as a PDF file (and printed only upon request) and in the electronic Conference4me system. Participants were provided with a freshly prepared hot lunch at the conference venue, made with local and regional products.

Friday evening was marked by a special cultural highlight – a performance of *The Magic Flute* at the Grand Theatre of Moniuszko (Opera) in Poznań, which attracted considerable interest among conference participants. During the conference, excursions were also organized by the Poznań Tourism Organization, allowing participants to discover the city's history, architecture, and landmarks. For those interested, tours of the PUT campus were arranged to familiarize attendees with the venue of the conference.

The organization of GAMM 2025 in Poznań was met with strong support from the community of Polish mechanicians and mathematicians, as well as the authorities of Poznań University of Technology, the City of Poznań, and the Wielkopolska Region. We would like to express our deep gratitude to the Rector of Poznań University of Technology, Professor Teofil Jesionowski and the staff of PUT for their invaluable support. We would like to thank the Minister of Science of the Republic of Poland, Mrs. Voivode of the Wielkopolska Region, Mr. Marshal of the Wielkopolska Region, Mr. Mayor of the City of Poznań, and the Rector of PUT for their patronage of GAMM 2025 and their support of the conference. We also thank the Polish Academy of Sciences (Committee

on Mechanics, Committee on Informatics), the Polish Society of Theoretical and Applied Mechanics, and the Polish Mathematical Society for their support. We are also grateful to the Springer Publishing House, TVP3 Poznań, Radio Afera, the Konstaktynowo Forest District, the Kon-Bet Plant, and the Solaris Bus & Couch for their contributions. We express our sincere thanks to the local technical organizing committee of GAMM 2025: our 30 colleagues and 80 students from the Faculty of Civil and Transport Engineering at PUT, the members of the GAMM Executive Board and GAMM Office in Dresden, the organizers of the mini-symposia and the sections and the chairs of their sessions, the Foundation for the Development of PUT, the Poznań Congress Center, the Poznań Convention Bureau, and the Poznań Supercomputing and Networking Center for their engagement and contributions, which were of key importance for the successful preparation of the conference. Our heartfelt thanks go to all of them who have actively supported us in the preparation and running of the conference.

The conference concluded on Friday with a closing ceremony chaired by Professor Wojciech Sumelka, co-chair of the local organizing team. During the session, the organizers of the next GAMM Annual Meeting at the University of Stuttgart gave a short presentation and extended their invitation to GAMM 2026. We warmly wish them every success in organizing GAMM 2026 and look forward to seeing the GAMM community gather again in Stuttgart.



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