General assembly of the GAMM Junior Research Group at TU Dortmund University

Place: Ringhotel Drees
Date: 9th of November, 2026
Time: 5pm

Agenda

TOP 1: Report of the past year

TOP 2: Election of the board for 2026

TOP 3: Activities of the Junior Research Group in 2027

TOP 4: Dinner and bowling

Executive Board 2026

President	Klas Feike	klas.feike@tu-dortmund.de
Vice President	Marius Harnisch	marius.harnisch@tu-dortmund.de
Secretary	Jonas Dünnebacke	jonas.duennebacke@tu-dortmund.de
Treasurer	Nataly Alejandra Manque Roa	nataly.manque@tu-dortmund.de

1 Report of the past year

The activities of the GAMM Junior Research Group at TU Dortmund University continued towards the end of last year with a seminar by Gian-Luca Geuken on December 16th, 2025. Entitled "Unraveling the Black Box: A Gentle Introduction to Neural Networks with Examples from Constitutive Modeling," the seminar explored neural networks and their applications in constitutive modeling. Earlier that month, on December 12th, members joined the Christmas party at Ruhr University Bochum, where PD Dr.-Ing. habil. Tobias Kaiser gave a talk entitled "A Multiscale View on Material Interfaces in Electrical Conductors."
In the new year, we presented the Junior Research Group at the GAMM 2026 conference in Stuttgart on March 18th. Embedded in the conference's general assembly, the presentation introduced our activities to a large audience and gave us the opportunity to represent junior researchers of the Ruhr univerities within the GAMM. On April 23rd, we held our Doctoral Consultation Hour. Several participants joined in person and via Zoom for lively discussions and questions about doctoral studies and alternative career paths.
Our scientific program continued on June 18th with a talk by Dr.-Ing. Tobias Waffenschmidt entitled "Advanced Material Characterization and Modeling at 3M." He presented advanced testing and modeling approaches for polymeric materials, including material-model calibration and parameter identification, and discussed verification and validation studies that illustrated the models' applicability and limitations in practical design scenarios. On July 2nd, former member of the GAMM Junior Resarch Group Dr.-Ing. Kai Langenfeld of Siemens Energy presented "Gas Turbine Design: Integrating Mechanical Evaluation into Engineering Practice." His talk covered general design, material, and modeling challenges in gas turbine engineering, alongside an introduction to how gas turbines work from different engineering perspectives. On July 16th, Dr. Felix Sutter and Dr. Simon Kapelke of Physik Instrumente (PI) spoke about "Materialmodellierung in der Piezo-Technologieentwicklung bei PI." After introducing PI and its product portfolio in piezo technology, they discussed modeling piezoceramics, including domain-wall hysteresis, self-heating, and macroscopic phenomenological and micromechanically motivated approaches.
The summer party also took place on 2 July, following the talk of Dr.-Ing. Kai Langenfeld. Around 30 participants, including guests from Ruhr University Bochum and the University of Duisburg-Essen, joined us for a barbecue and an opportunity for scientific exchange and social interaction. Later in the year, some members took part in a padel sports event, continuing the group's tradition of combining professional exchange with informal activities.
We thank all speakers and participants for their contributions and look forward to another year of collaboration and stimulating exchange.

- 09.11.2026: **General Assembly** at Ringhotel Drees
- 07.10.2026: **Social Event:** Padel
- 16.07.2026: **Talk** by Dr. Felix Sutter and Dr. Simon Kapelke on "Materialmodellierung in der Piezo-Technologieentwicklung bei PI"
- 02.07.2026: **Summer Party** and **Talk** by Dr.-Ing. Kai Langenfeld on "Gas Turbine Design: Integrating Mechanical Evaluation into Engineering Practice"
- 18.06.2026: **Talk** by Dr.-Ing. Tobias Waffenschmidt on "Advanced Material Characterization and Modeling at 3M"
- 23.04.2026: Fifth **Doctoral Consultation Hour** of the GAMM Junior Research Group
- 18.03.2026: Presentation of the GAMM Junior Research Group at the GAMM 2026 conference in Stuttgart
- 16.12.2025: **Seminar** by Gian-Luca Geuken on "Unraveling the Black Box: A Gentle Introduction to Neural Networks with Examples from Constitutive Modeling"
- 12.12.2025: **Christmas Party** at Ruhr University Bochum
- 19.11.2025: **General Assembly** at Ringhotel Drees

2 Election of the board for 2027

Two weeks prior to this general assembly, all regular members were given the opportunity to nominate themselves or others for the election as a member of the board for 2027. For each position, only one nominee was proposed:

President	Klas Feike	klas.feike@tu-dortmund.de
Vice President	Marius Harnisch	marius.harnisch@tu-dortmund.de
Secretary	Chantal Jahner	chantal.jahner@math.tu-dortmund.de
Treasurer	Nataly Alejandra Manque Roa	nataly.manque@tu-dortmund.de

The election can be conducted either by email to the secretary (jonas.duennebacke@tu-dortmund.de) until November 9, 2026, or by a physical vote by show of hands at the general assembly. An informal email accepting the nominees is sufficient.

3 Activities in 2027

In the past year, our activities have diversified. Especially by reigniting the Seminar format, by continuing the Doctoral Consultation Hour and by inviting speakers that work at the interface of science and industry.

We again invite all members to contribute their ideas for upcoming scientific and social events. Whether suggestions for speakers, formats for workshops, or proposals for new collaborations – every contribution is highly appreciated. We look forward to another dynamic year full of inspiring discussions, joint initiatives, and continued growth of our network.