

GENERAL INFORMATION

Advisory board

Germany

Benjamin Butz, University of Siegen
Andreas Graff, Fraunhofer Institute for Microstructure of Materials and Systems
Katharina Hipp, Max-Planck Institute for Biology Tübingen
Carsten Sachse, Forschungszentrum Jülich
Kerstin Volz, Philipps-University of Marburg
Marc Willinger, Technical University of Munich

Austria

Tom Heuser, Vienna Bio Center
Gerald Kothleitner, Technical University of Graz
Gerd Leitinger, Medical University of Graz
Michael Stöger-Pollach, Technical University of Vienna

Switzerland

Daniel Böhlinger, Eidgenössische Technische Hochschule Zürich
Marco Cantoni, Ecole Polytechnique Fédérale de Lausanne
Christel Genoud, Ecole Polytechnique Fédérale de Lausanne
Robin Schäublin, Eidgenössische Technische Hochschule Zürich

Important deadlines 2025

10 Feb Abstract submission deadline
15 Apr Review deadline
30 Apr Notification of abstract acceptance
15 May Early bird registration

Registration

Please register online at www.microscopy-conference.de.

| CONFERENCE FEES | EARLY BIRD 15 MAY | REGULAR |
|---------------------|-------------------|---------|
| Member* | 295 EUR | 345 EUR |
| Non-member | 355 EUR | 405 EUR |
| Student/Pensioner | 115 EUR | 135 EUR |
| Day ticket | 200 EUR | 200 EUR |
| Pre-workshop | 95 EUR | 95 EUR |
| Accompanying person | 155 EUR | 185 EUR |
| Exhibitor | 175 EUR | 175 EUR |

CONFERENCE DINNER

| | |
|-----------------------------|--------|
| Student/Pensioner | 10 EUR |
| Regular (member/non-member) | 20 EUR |
| For day ticket holder | 35 EUR |

* DGE – German Society for Electron Microscopy e. V.
SSOM – Swiss Society for Optics and Microscopy
ASEM – Austrian Society for Electron Microscopy
EMS – European Microscopy Society

GENERAL INFORMATION

Venue

Messe Karlsruhe,
Messeallee 1
76287 Rheinstetten, Germany

Date

31 August–4 September 2025

Conference Chairs

Prof. Dr. Christian Kübel

Karlsruhe Institute of Technology (KIT)
Institute of Nanotechnology & Karlsruhe Nano Micro Facility
and Technical University Darmstadt Department
of Materials & Earth Sciences

TT. Prof. Dr.-Ing Yolita M. Eggeler

Karlsruhe Institute of Technology (KIT)
Laboratory for Electron Microscopy (LEM) and
Microscopy of Nanoscale Structures & Mechanisms (MNM)

Prof. Dr. rer. nat. Astrid Pundt

Karlsruhe Institute of Technology (KIT)
Institute for Applied Materials Science (IAM-WK)


Prof. Dr. rer. nat. Rasmus R. Schröder

Cryo Electron Microscopy
Heidelberg University/Medical Faculty

Lunchtime lectures and industrial exhibition

The MC 2025 will be offering a large range of possibilities for exhibition, lunchtime lectures, advertisements and other marketing services, and is therefore the perfect platform to present your company and products to an outstanding audience of about 1,000 experts from all over the world.

Conference organiser

Conventus Congressmanagement & Marketing GmbH 
mc@conventus.de
www.conventus.de



31 August–4 September 2025
www.microscopy-conference.de

DREILÄNDERTAGUNG

The MC 2025 is jointly organised by
DGE – German Society for Electron Microscopy e. V.
SSOM – Swiss Society for Optics and Microscopy
ASEM – Austrian Society for Electron Microscopy



Based on the scientific quality, educational merits, international dimension, and student support of the present event, EMS (European Microscopy Society) has granted patronage over the Microscopy Conference 2025.



WELCOME NOTE

Dear Colleagues and Friends,

We are pleased to welcome you to the Microscopy Conference MC 2025, which will take place from August 31st to September 4th, 2025, in the charming city of Karlsruhe, Germany. Whether you're a student just starting out in the fascinating world of microscopy, a technician on the hunt for the latest gear and scientific techniques, or

an experienced scientist or renowned expert, this will be your European microscopy conference in 2025. Our goal is to create an inspiring atmosphere where ideas can flourish, and new collaborations can bloom.

Following the tradition of the 'Dreiländertagung', the Austrian, German, and Swiss Societies for Electron Microscopy (ASEM, DGE, SSOM) are excited to set the stage for vibrant scientific exchange and innovation sparked by the passion for science. We are expecting over 1,000 participants from around the globe, making this a truly international celebration of microscopy.

The Karlsruhe Institute of Technology (KIT), celebrating its 200th anniversary in 2025, will host pre-conference workshops on August 31. These workshops promise an intense exchange with experienced researchers and a warm invitation to young microscopists to dive right in.

The Messe Karlsruhe, with its spacious halls and well-equipped conference rooms, is the perfect location for our main scientific programme. It offers excellent facilities for both, instrument exhibitions and scientific presentations, along with ample space for coffee and lunch breaks, ensuring that our shared passion for microscopy research has both, the room –and the refreshments– it needs to thrive!

Our scientific programme will feature plenary talks on the hottest current topics. You'll hear about the latest advances in instrumentation and methods, materials science, and life sciences through invited talks, as well as oral and poster presentations. The event will be completed by the opening and closing ceremonies, award presentations, and prize lectures.

We are looking forward to seeing you all in Karlsruhe – you will make our conference a truly special and genuine experience, a unique platform for exchanging ideas and insights.

Warm regards,

Christian Kübel, Yolita M. Eggeler, Astrid Pundt, Rasmus Schröder
Conference Chairs, MC 2025



PRELIMINARY PROGRAMME STRUCTURE

| | Sun 31 Aug | Mon 1 Sept | Tue 2 Sept | Wed 3 Sept | Thu 4 Sept |
|-------------------|---------------|---|----------------------|----------------------|---------------------------------|
| Pre-Workshops | | Opening & Plenary 1 | Plenary 2 + 3 | Ernst Ruska Lectures | Harald Rose Lecture & Plenary 4 |
| | | Opening Industrial Exhibition | | Coffee Break | |
| | | MS 1 LS 1 IM 1 | MS 2 LS 2 IM 2 | MS 4 LS 4 IM 4 | MS 6 LS 6 IM 6/LS 7 |
| | | Break & Lunchtime Lectures | | | |
| Registration | | Poster Presentations | Poster Presentations | Poster Presentations | MS 7 MS 8 IM 7 |
| | | Exhibitor's Presentations | MS 3 LS 3 IM 3 | MS 5 LS 5 IM 5 | Closing & Farewell |
| Welcome Reception | | Networking within the Exhibition | | | |
| | | Individual cultural programme or Invitation by Sponsors | | | |
| | | | | | Conference Dinner |

ABSTRACT SUBMISSION

Conference topics

A detailed description of all listed sessions can be found online.

Materials Science

- MS 1 Energy-related materials and catalysts
- MS 2 Metals and alloys
- MS 3 Disordered materials
- MS 4 Low-dimensional and quantum materials
- MS 5 Functional organics, carbon-based and hybrid materials
- MS 6 Ceramics, composites and geoscience
- MS 7 Multi-scale and correlative *in-situ/operando* electron microscopy
- MS 8 Beyond ideal 2D and van der Waals materials: Disorder, defects, adatoms, and contamination

Life Sciences

- LS 1 Structure and functions of cells and organelles – Cryo ET
- LS 2 Structure and functions of cells and organelles – Imaging of large volumes nad plastic section tomography
- LS 3 Cryo-EM and image analysis of macromolecules and molecular assemblies
- LS 4 Correlative microscopy and multimodal microscopy
- LS 5 Pathology, pathogens and diagnostics
- LS 6 Advances in sample preparation

Instrumentation and Methodes

- IM 1 Progress in instrumentation and ultrafast EM
- IM 2 Advanced spectroscopy
- IM 3 SEM and FIB developments
- IM 4 Emerging techniques and applications in 4D-STEM
- IM 5 Beam shaping and analysis
- IM 6 Big data and AI techniques
- IM 7 Electron crystallography

Workshops

- 4D-STEM concepts and applications in the physical and life sciences
- *In-situ/operando* TEM and SEM
- Practical aspects of aberration correction in TEM and STEM
- Research data management
- Materials meets life science microscopy – From critical preparation to advanced microscopy of sensitive/reactive specimens
- Volume EM – selected topics

The scientific programme will offer a variety of plenary lectures, scientific talks and poster sessions as well as workshops covering the topics above.

PLEASE SUBMIT YOUR ABSTRACTS UNTIL 10 FEBRUARY
ONLINE AT www.microscopy-conference.de

