



8th World Congress on Micro and Nano Manufacturing

WCMNM 2025

September 15 – 18 , 2025

Valletta, Malta

Conference Chair: Pierre Vella, *University of Malta, Malta*

Conference Co-Chair: Stefan Dimov, *University of Birmingham, UK*
Kuniaki Dohda, *Northwestern University, USA*
Sylvie Castagne, *KU Leuven, Belgium*

*The World Congress on Micro and Nano Manufacturing (WCMNM) is organised by three research societies: the 4M Association, International Institution for Micro Manufacturing (I2M2) and the International Forum on Micro Manufacturing (IFMM). Originally, the three societies started as separate organisations bringing together micro- and nano manufacturing scientists and engineers in Europe, North America and Asia respectively. The first International Conference on Multi-Material Micro-Manufacture (4M) was held at Forschungszentrum, Karlsruhe in 2005. A year later I2M2 organised the International Conference on Micro Manufacturing (ICOMM) at the University of Illinois. The two communities organised their first joint 4M/ICOMM conference at Karlsruhe Institute of Technology in 2009. Eventually, as the three organisations grew, they united their efforts in organising joint conferences and the 1st World Congress on Micro and Nano Manufacturing took place in Taiwan in 2017. Since 2017, the 4M Association, I2M2 and IFMM have been hosting WCMNM gatherings by alternating the conference among the three continents, Europe, North America and Asia. The last conference, WCMNM 2024, was held in Pattaya, Thailand. In **September 2025**, the conference returns to Europe, and it will take place at the **University of Malta, Valletta Campus**. WCMNM 2025 is also a special event as it marks the **20th anniversary** since the first 4M conference was held in 2005.*

Co-organized by University of Malta, 4M Association, I2M2, IFMM and University of Birmingham



<https://www.4m-association.org/conference/WCMNM2025/wcmnm2025.html>

CONFERENCE TOPICS

- Micro fabrication technologies, process chains and process characterisation
- Novel product designs, micro-assembly technologies and micro-handling
- Miniaturization of machines and equipment; positioning, motion generation, sensors systems and control
- Surface engineering and interface nanotechnology
- Process modelling and simulation
- Processing and characterisation of smart materials, multifunctional materials, nanomaterials and material related issues in micro and nano scale
- Micro and nano additive, subtractive, joining and hybrid manufacturing technologies
- Micro and desktop factory concepts, systems, components and modules
- On-line monitoring and inspection systems/methods and smart manufacturing/ methods
- Standardization in micro manufacturing and micro factories
- Applications of micro and nano technologies
- Emerging micro manufacturing methods and equipment including those that bridge the nano- and macro worlds
- Biomanufacturing and biomedical devices
- Wear, tribo-corrosion, bio-tribo-corrosion , surface modifications and materials
- Microengineering

SUBMISSION OF FULL PAPER

These topics listed above represent the intended content of the WCMNM 2022 thematic sessions, to which the authors are invited to submit papers.

- **Submission site opens: 18th February 2025** **Deadline: 11th April 2025**

PAPER REVIEW

To ensure a high-quality Conference all papers will be reviewed by the congress' Scientific Committee under the leadership of the Scientific Chairs.

Oral and Poster Presentation

Submitted papers may be selected for oral or poster presentation. All oral and poster presentations will be included in the Conference Proceedings.

KEY DATES

- Submission of papers starts: **18th February 2025**
- Submission deadline for full papers: **11th April 2025**
- Feedback from the peer review to authors: **2nd June 2025**
- Submission deadline of revised final paper: **13th June 2025**
- Notification of acceptance in Final Publication: **27th June 2025**
- Authors Final Registration: **3rd July 2025**
- End of Early Bird Registration: **31st July 2024**

PROCEEDINGS

All accepted papers will be published electronically in the Proceedings of WCMNM 2025 (copyrights remain with the authors). Also, selected papers will be considered for publication in a Special Issue for ASME Journal of Micro and Nano Science and Engineering.



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