



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*

Keynote Speakers:

Professor Arif Rochman, University of Malta (Malta), Department of Industrial & Manufacturing Engineering, Faculty of Engineering

Research interests: Polymer Design, Polymer Processing, Polymer Testing, Tool/Mould Design and Manufacture, Additive Manufacturing for Rapid Prototyping, Tooling and Manufacturing (RPTM)

Professor Kira Barton, University of Michigan (USA), Robotics Department, Mechanical Engineering Department

Research interests: Control theory and applications, iterative learning control, multi-agent systems, human/robot collaborations, smart manufacturing, manufacturing robotics, high-performance micro/nano-scale printing for electrical and biomedical applications

Professor Sathyan Subbiah, Indian Institute of Technology Madras(India)
Mechanical Engineering Department

Research interests: Modelling and Simulation in Manufacturing, Automation in Manufacturing, Space manufacturing, human/robot collaborations, diamond coatings/membranes, novel manufacturing processes

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 2025 thematic sessions, to which the authors are invited to submit papers.

- **Submission site opens:** 1st March 25 **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: 1st March 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: 5th July 2025
- End of Early Bird Registration: 15th 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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4M Association Officer

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