



european society for precision engineering and nanotechnology

Special Interest Group:

Micro/Nano Manufacturing

28th - 29th November 2023

Technische Universität Ilmenau/
SIOS Messtechnik GmbH
Ilmenau
Germany



Micro- and nano-scale manufacturing has been the subject of research and industrial focus over the past 25 years. Lithography-based technology forms the basis of micro-electro-mechanical systems (MEMS) manufacturing, but precision manufacturing technologies have also been developed to cover micro-scale dimensions and accuracies. These fundamentally different technologies are combined in order to exploit their strengths. One example is the use of lithography-based technologies to establish nanostructures that are subsequently transferred to 3D geometries via injection moulding. Another could be micro-scale additive manufacturing combined with precision subtractive finishing. Manufacturing processes at the micro-scale are the key enabling technologies to bridge the gap between the nano- and the macro-worlds to increase the accuracy of micro/nano-precision production technologies, and to integrate different dimensional scales in to mass-manufacturing processes. Accordingly, the Special Interest Group Workshop on Micro/Nano Manufacturing will focus on novel methodological developments in micro- and nano-scale manufacturing, i.e., on novel process chains including process optimisation, quality assurance approaches and metrology.

The workshop will host keynotes and several presentations and posters covering the latest developments and research on this increasingly important topic. The workshop will also host a training seminar covering aspects of micro/nano manufacturing in practice.

Topics

- Micro & Nano Manufacturing Technologies & Applications
- Micro Replication & Additive Techniques
- Machining Technologies for Moulds & Microparts
- Assembly & Handling
- Metrology & Quality Control for Microparts

Key dates

7th Aug 2023	Delegate Registration Opens
1st Sept 2023	Short Abstract Submission Deadline
18th Sept 2023	Notification of Presentation Award (Oral/Poster)

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