



european society for precision engineering and nanotechnology

Special Interest Group:

# Micro/Nano Manufacturing 27<sup>th</sup> - 28<sup>th</sup> November 2019

Technical University of Berlin  
Berlin, Germany

Micro- and nano-scale manufacturing has been the subject of research and industrial focus over the past 20 years. Traditional lithography-based technology forms the basis of micro-electro-mechanical systems (MEMS) manufacturing, but also precision manufacturing technologies have been developed to cover micro-scale dimensions and accuracies. These fundamentally different technologies are currently combined in order to exploit strengths of both platforms. One example is the use of lithography-based technologies to establish nanostructures that are subsequently transferred to 3D geometries via injection moulding. 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 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 optimization, quality assurance approaches and metrology.

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

## Topics

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

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