TWO WEBINARS ON NANOMETROLOGY



Webinar on nanometrology instrumentation, especially on high-speed long-range scanning probe microscopes (SPM).

Preliminary program (subject to change):

December 7, 2023, 9:00 – 11:30 (CET)

MetExSPM project: Development of traceable methods for high-speed and large-range SPM	<i>Virpi Korpelainen</i> , VTT Technical Research Centre of Finland
Active cantilevers	<i>Ivo Rangelow</i> , nano analytik GmbH
A high-speed large-range SPM scanner based on a magnetic levitation stage and piezo scanners	Rudolf Krueger, Physik Instrumente (PI) GmbH
Data processing in metrological high-speed scanning probe microscopes	<i>Petr Klapetek</i> , CMI Czech Metrology Institute
A high-speed large-range SPM prototype	<i>Jan Thiesler,</i> PTB Physikalisch-Technische Bundesanstalt
Applications of open hardware Gwyscope controller for adaptive and high-speed SPM	<i>Miroslav Valtr,</i> CMI Czech Metrology Institute
Grating pitch data evaluation methods – good parameter choices and accuracy	<i>David Nečas,</i> CEITEC, Brno University of Technology

Microsoft Teams meeting

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Applications 8.1.2024

Webinar on applications of nanometrology, scanning probe microscopes (SPM) and nanopositioning & nanomeasuring machines.

Preliminary program (subject to change):

January 8, 2024, 9:00 – 11:30 (CET)	
MetExSPM project: Development of traceable	<i>Virpi Korpelainen</i> , VTT
methods for high-speed and large-range SPM	Technical Research Centre of Finland
Application of nanometrology to improve	<i>Edward Heaps,</i> NPL
nanopositioning stages in high-speed AFM	National Physical Laboratory
Traceable surface and nanometrology: nano-	<i>Gaoliang Dai,</i> PTB
positioning & nanomeasuring machine at PTB	Physikalisch-Technische Bundesanstalt
Application of active piezoresistive cantilevers in high-eigenmode surface imaging	<i>Teodor Gotszalk</i> , Wrocław University of Science and Technology
Implementation of interferometers in a com-	<i>Bruno Sauvet</i> , VTT
mercial SPM to extend positioning capabilities	Technical Research Centre of Finland
Compressed sensing method for scanning probe	<i>Radek Šlesinger,</i> CMI
microscopy based on Gaussian processes	Czech Metrology Institute
Application of active AFM cantilever systems in nanopositioning and nanomeasuring machines	<i>Eberhard Manske,</i> Technische Universität Ilmenau

Microsoft Teams meeting

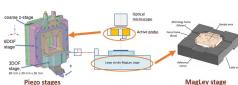
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MetexSPM will turn high-speed SPMs from qualitative imaging devices to high-accuracy quantitative instruments by developing:

Novel multifunctional probes and electronics



High-speed large stroke scanning stages



Software and advanced scanning strategies



