

53. IWK

Internationales Wissenschaftliches Kolloquium
International Scientific Colloquium



Faculty of
Mechanical Engineering



PROSPECTS IN MECHANICAL ENGINEERING

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Preface

Dear Conference Participants,

Please accept this, our by now traditional welcome. We are delighted to have you with us at the 53rd IWK (International Scientific Colloquium), held at the Ilmenau University of Technology.

This year the lecture series and workshops are bracketed together under the heading Prospects in Mechanical Engineering. To change the metaphor, we have brought together under one roof six lecture series addressing specific topics, four international conferences and five workshops on specific subjects.

The Topics are:

1. Intelligent Mechanics in Robotics
2. Functionalization of Material Surfaces / Nano Processing
3. PC-based Control
4. Systems Engineering for MEMS and MOEMS
5. Engineering Design (Methods & Tools, Machine Elements and Intelligent Components, Precision & Optical Engineering)
6. Quality Measurement and Industrial Image Processing.

To continue in the metaphorical manner, all of them are facets of Mechanical Engineering which reflect those subjects in which our own Faculty shines, as a centre of both knowledge and research.

The Colloquium, jointly with the four international conferences

- "ICPM 2008" (International Conference on Precision Measurement)
- "Licht 2008" (the Conference of the European Photometry Associations)
- The autumn conference on ergonomics of the Gesellschaft für Arbeitswissenschaft, GfA Herbstkonferenz
- The International Colloquium for Micro and Precision Engineering, hosted by GMM (the German association of precision and mechanical engineers, VDE/VDI-Gesellschaft Mikroelektronik, Mikro- und Feinwerktechnik),


is characterised by the subjects listed above but not narrowly limited to them.

While not ignoring the fact that Mechanical Engineering is a wide field, we have here our special areas and the necessary scientific depth, so that discussion at the IWK will be exciting and exhaustive, providing the material, no doubt, for further publications in the various respective subject-related journals.

We are delighted with the response to the call for papers. There are to be 205 contributions, representing 25 countries. The range of subjects reflects the interdisciplinary nature of the themes and will bring together industrialists and scientists from a variety of specialisms.

Once again, the IWK – this one is the 53rd – is the platform for the award of the Alfred Kuhlenkamp Prize offered by the microelectronics and micro/precision engineering section of the VDI/VDE (German electrical and computing engineer's association). This association has joined forces with the IWK again this year, for its 20th Colloquium on Precision Engineering. The conference programme will be completed by workshops and seminars on current research matters, together with a number of company presentations.

We hope that you will all have a fruitful and interesting professional exchange of views, and wish you the happiest of stays here in the town of Ilmenau with its connections to Goethe, who also appreciated its beauty and that of Thüringen.



Univ.-Prof. Dr. rer. nat. habil.
Dr. h. c. Prof. h. c. Peter Scharff
(Professor Peter Scharff)
Rector of Ilmenau University of Technology



Univ.-Prof. Dr.-Ing. habil. Peter Kurtz
(Professor Peter Kurtz)
Dean of the Faculty of Mechanical Engineering

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Session 5.1: Precision and optical engineering

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Design guidelines for mineral casting as a material for base-frames of precision-machines

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C. Schenk, S. Risse, G. Schubert, R. Eberhardt

Gas-lubricated guidings – suitable for vacuum systems?

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T. Widmaier, P. Kuosmanen, T. Salmela, P. Kärhä, J. Juhanko

Improved steel strip quality by 3D ground backup rolls

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C. Gembus, M. Lotz, E. C. N. Silva, R. Theska

Topology optimization of a tetrahedron mirror for a high-precision measuring and positioning machine

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An improved laser tracker system for an absolute position measurement in machine tools

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Magnetorheological technology in high frequency applications

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Position sensing in nanopositioning devices

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Microscope objectives for semiconductor metrology: technology driver for the mounting technology of optical high performance systems with small diameters

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Modeling of optical calculation of frontal lenses in view of technological features of assembly of microobjectives

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Laboratory for automated assembly of microscope lenses

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Novel precision positioning system with integrated planar guides

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Way of assignment of admissions of optical details of precision optical units

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Optical design of a frontal lens of high aperture microobjective

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Modern microscope with telecentral course of beams

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A multiobjective evolutionary algorithm for designing and optimizing gearshafts

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Increasing the functional properties of helical springs by using of SiCr-alloyed oil hardened spring steel wire with optimized strength and forming behavior

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Analysis of axially symmetric non-standard compression springs

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Laboratory tests as a base for life time prediction of passenger car air springs

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Application of tube springs - one method of lightweight construction of suspensions

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Influence of the rotating direction of helical springs on their tribological load

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Method for designing new technical systems based on a transparent morphological cube with the use of the tree-like classifications

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Scenarios for the engineering design of new products - product scenarios with evolutionary algorithm

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Support of design engineering activity through the Contact and Channel Model - the importance of a continuous and systematic model building

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Advances in multisensor-coordinate measuring-integration of X-ray computed tomography and confocal microscopes

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Flexible inspection of small series production systems through the use of dynamic sensor fusion principles

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Visual quality measurements with innovative universal smart vision sensors

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M. C. Funck, P. Loosen

Estimating the performance gain of selectively assembled optical systems

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G. Ladányi

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