## Workshop on Tip- and laser-based 3D-Nanofabrication in extended working volumes. 13-15.09.2018 in Wrocław

Thursday, 13.09.2018					
	16:00	Prof. Gotszalk+ Prof. Manske	Welcoming / Opening by Prof. Gotszalk + Prof. Manske		
Session 1, Chairman Prof. Gotszalk	16:15	Prof. Manske	Nano positioning and measuring machines as a basis for tip and laser based nanofabrication in extended working volumes		
	16:50	Maciej Rudek	SThM metrology		
	17:10	Martin Hofmann	Field Emission from Diamond Nanotips for Scanning Probe Lithography		
	17:30	Shraddha Supreeti	Development and Analysis of an Integrated Soft UV-Nanoimprint Lithography process for imprinting on flat and non-flat surfaces		
	17:50		Close Thursday		
	~18:30:00		Get Together doctoral students and Professors in a restaurant at Odra riverside: Dinner, volleyball, soccer, boccia		





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Friday, 14.09.2018					
	10:00	Prof. Gotszalk	Nanometrology Division activities		
	10:30	Dr Łukasz Gelczuk	Deep Level Transient Spectroscopy-Basics and applications		
Session 2, Chairman Prof. Rangelow	10:50	Wojciech Majstrzyk	Active piezoresistive nanoforce reference		
FIOI. Rangelow	11:10	Oliver Dannberg	Traceable calibration of small cantilevers with an electromagnetic nano force balance		
	11:30		Coffee		
	11:50	Krzysztof Gajewski	High resolution, spatially resolved surface potential investigations on high strength metallurgical graphene using scanning tunnelling potentiometry		
Session 3, Chairman Dr. Kühnel	12:10	Maximilian Darnieder	Sensitivity enhancement of weighing cells with flexure hinges		
Kuillei	12:30	Taras Sasiuk	High - accuracy torque generation in the region of 1mNm – 1Nm based on the Jockey – Weight principle".		
	12:50	Bartosz Świadkowski	Metrology and control of electromagnetically actuated cantilevers		
	13:10		Lunch		
	13:50	Jarosław Serafińczuk	2D Materials -basics and possible applications		
Session 4, Chairman	14:10	Piotr Kunicki	SEM/FIB fabrication and metrology of MEMS tools		
Prof. Sinzinger	14:30	Xinrui Cao	Lau effect in the lithographic micro-nanostructuring		
	14:50	David Fischer	Maskless lithography for microstructuring of 3D surfaces		
	15:10		Coffee		
	15:30	Karolina Orłowska	Photon force MEMS based metrology		
Session 5, Chairman Prof. Manske	15:50	Laura Weidenfeller	Investigations on sub micrometer direct laser writing with the nanopositioning and nanomeasuring machine NMM-1		
TTOI. Wallske	16:10	Johannes Kirchner	A combined laser scanning and DLW tool for measuring and fabrication tasks with NPMM		
	16:30		Close Friday		
	16:40		Lab Tour		
	~18:00		Doctoral students (Wroclav-Ilmenau) self organized dinner and bar in the city center Professors: Dinner and discussions in "Lemberg Restaurant"		

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Saturday, 15.09.2018					
Session 6, Chairman Dr. Schäffel	10:00	Dr Tomasz Piasecki	Impedance spectroscopy-basics and aplications		
	10:20	Ralf Schienbein	The implementation of ultra precision rotations to multiaxial nanofabrication machines: challenges and solution concepts		
	10:40	Florian Fern	Ultra precise motion error measurement of rotation kinematics for the integration in nanomeasuring and nanofabrication machines		
	11:00	Stephan Gorges	Design and Modeling Approach for a Lifting and Actuating Unit for the Application in Nano-Precision Machines		
	11:20		Coffee		
	11:40	-	-		
Session 7, Chairman	12:00	Christoph Weise	Observer with Improved Convergence for a Class of Initialized FO-LTI Systems		
Prof. Reger	12:20	Oscar Cieza	Algebraic IDA-PBC for Polynomial Systems with Input Saturation: An SOS-based Approach		
	12:40	Michał Babij	High-frequency SPM nanodisplacement reference		
	13:00		Lunch		
	14:00	Florian Weigert	Novel concepts for the high reproducible change of tools and sensors in nanofabrication machines		
Session 8, Chairman Prof. Füßl	14:20	-	-		
PTOI. Fuisi	14:40	Bartosz Pruchnik	Efficiency of electrothermal actuation - study and metrology		
	15:00	Krzysztof Kwoka	Soft piezoresistive cantilevers for adhesion force measurements		
	15:20		Coffee		
Session 9, Chairman Dr. Piasecki	15:40	Ewelina Gacka	Noise metrology of semiconductor lasers and piezoresistive cantilevers		
	16:00	Paulina Szymanowska	Influence of the geometry on the LTCC integrated electrochemical cell performance		
	16:20		Close Saturday		