

Scientific Program
3rd of March, 2023, AM 3

Session 5 - Track C		
Medical Electronics		
Time	Chair:	
9:00	95	<i>C. Grundman, M. Urban</i>
		Development of a Digital Continuous Wave NMR for Search for Hemoglobin Patterns
9:12	111	<i>S. Ahmed, R. Behroozian, B. Kern, S. Müller</i>
		Performance Evaluation of Lithium-ion Batteries for Application in a Mobile Medical Device
9:24	112	<i>H. Volkens, L. Belloi</i>
		Development of an MRI receive-only coil-array prototype with adjusted geometrical overlap to improve the sensitivity profile and the signal to noise ratio in the area of the overlap
9:36	69	<i>L. Lekat, M. Kircher</i>
		Explorative analysis of microRNA expression in liquid biopsy DNA sequencing data
9:48	34	<i>T. Hörcher, M. Neef</i>
		Evaluation and characterization of a galvanometer scanner
10:00	Coffee Break	
Session 6 - Track C		
Biochemical Physics		
Time	Chair: Prof. Dr. Christian Hübner	
10:15	120	<i>A. Jain, A. Illarinova, L. M. Lange, M. Thomsen, C. Klein, Z.-H. Fang, K. Lohmann</i>
		Short Tandem Repeats Analysis and Validation – The Global Parkinson’s Genetics Program (GP2) –
10:27	23	<i>J. Rückert, N. Ludolph, H. Paulsen</i>
		Reaction coordinates of protein folding: Comparison between the number of native hydrogen bonds and the RMSD of the crystal structure
10:39	7	<i>M. Mey, T. Gutschmann, C. Nehls</i>
		Atomic Force Microscope analysis of binding forces of E. coli bacteria to Sahara mineral dust particles collected on the Cape Verde Islands
10:51	117	<i>M. Altenburger, M. Rahlves, R. Rahmzadeh</i>
		Development of a Low-Cost Process Chain for the Production of Microfluidic Structures by Additive Manufacturing
11:03	48	<i>N. Rickert, J. Kappel, C. Hübner</i>
		Investigation of Sample Drift for Improved Recording of Single Molecule Time Traces at Low Temperatures (77 K)
11:15	Coffee Break	

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Session 7 - Track C		
Biomedical Optics 1		
Time	Chair:	
11:30	67	<i>G. Meußler, H. Spahr, T. Kepp, L. Puyo, C. Pfäffle, J. Franke, G. Hüttmann</i>
		Image stitching of high-resolution optical coherence tomography en-face projections with an intensity-based and a feature-based approach
11:42	130	<i>J. Klinkforth, M. Ahrens</i>
		Identification and Classification of Production-related Processing Defects in Welds in a Novel Large-format LASER Contour Welding Process for Multilayer Polymer Film Material
11:54	126	<i>K. L. Goodwin, S. Meyer, F. Sommer, T. F. Kutscher, S. Karpf</i>
		Development of a 976 nm Ytterbium-fiber MOPA laser
12:06	24	<i>L. Hoffmann, C. Burri, S. Salzmann, M. Amstutz, C. Meier, R. Brinkmann</i>
		Simultaneous microbubble detection by optical coherence tomography and optoacoustics for selective retina therapy
12:18	116	<i>N. Tesmer, M. Rahlves</i>
		Design of low cost thermal and UV nanoimprint devices
12:30	Lunch Break	
Session 8 - Track C		
Biomedical Optics 2		
Time	Chair: Prof. Dr. Sebastian Karpf	
13:30	25	<i>L. Zarbuch, J. Dinkel, N. Damm</i>
		Visualization of Intraocular Lenses Edge Roughness
13:42	90	<i>M. Thielking, F. Sommer, C. Stock, S. Karpf</i>
		Tomographic Flow Cytometry using SLIDE Two-Photon Microscopy
13:54	20	<i>N. Beutel, F. Wienhausen, D. Stroecker, N. Kowalczyk</i>
		Experimental determination of the quantum efficiency of CMOS cameras
14:06	82	<i>P. B. Wessling Intriago</i>
		Combination of a Liquid Lens as a 3D Imaging Method with an Endoscope
14:18	26	<i>R. M. Busch, K. Sowoidnich, L. S. Theurer, A. Müller, M. Maiwald, B. Sumpf</i>
		Shifted excitation Raman difference spectroscopy for the investigation of fluorescent animal bones
14:30	Coffee Break	
14:45	Award Presentation and Farewell	