

Scientific Program

Thursday, March 10, 2016

08:00	Begrüßung		
Biomedical Optics Chair: Prof. Dr. Alfred Vogel			
08:15	01	A graphical user interface-based automatized analysis routine for the intracellular luminescence nanothermometry <i>D. Weng, G. Hüttmann, M. Suzuki, and Y. Miura</i>	
08:27	02	Multi-pump diode arrangement of a diode-pumped solid state laser <i>T. Schmidtke, R. von Elm, and C.L. Schmidt</i>	
08:39	03	Fiber based ytterbium amplified nanosecond pulses for 2-Photon- and stimulated Raman scattering microscopy <i>H. Hakert, M. Eibl, and R. Huber</i>	
08:51	04	Ex-vivo validation of a new speckle-based retinal photocoagulation control <i>L. Effe, L. Stockmann, K. Bliedtner, E. Seifert, and R. Brinkmann</i>	
09:03	05	Imaging cold-induced vasodynamic behaviour using optical coherence tomography for microangiography <i>M. Casper, C. Nguyen, M. Evers, H. Schulz-Hildebrandt, R. Birngruber, D. Manstein, and G. Hüttmann</i>	
09:15	06	Development And Simulation Of An Optical Coherence Tomography Catheter For Early Screening Of Colorectal Cancer <i>S. Lohmann, M. Gora, J. Dong, T. Ford, L. Quéñéhervé, G. Tearney, and R. Birngruber</i>	
09:27	07	Sensitivity Characterization of an Epifluorescent Microscope for Tracking of Photoluminescent Nanoparticles in Chick Embryo Tumour Models <i>I. Kuschnerus, A. Nadort, Y. Lu, A. Guller, and A.V. Zvyagin</i>	
09:39	Coffee Break		
Biochemical Physics I Chair: Prof. Dr. Robert Huber			
09:54	08	Simulation of UV Absorption of the Toxic Gas Hydrogen Sulfide <i>P. Olenik, O. Wille, and P. Rostalski</i>	
10:06	09	The UV-visible absorption spectrum of all-trans retinal chromophore in the gas phase A. Kluge	
10:18	10	Lactate separation employing electrophoresis – Separation of blood components in an electric field – <i>R. Gänger, S. Fiedler, and S. Müller</i>	
10:30	11	Method Optimisation and Preparation for Nanoparticle Induced Hyperthermia as a Novel Therapy to Treat Cutaneous Leishmaniasis <i>C. Grill, S. Oates, N. Telling, C. Hoskins, and H. Price</i>	
10:42	Coffee Break		
Biochemical Physics II Chair: Prof. Dr. Christian Hübner			
10:57	12	Construction of a Cryo Microscope for Single-molecule Measurements <i>K. Duda, V. Hirschfeld, J. Pavlita, and C. Hübner</i>	
11:09	13	Evaluation of molecular dynamics calculations for the determination of diffusion coefficients <i>H. Quardokus and H. Paulsen</i>	
11:21	14	Improving the optical properties of a fused silica capillary <i>K. C. Reiter, Sven Schneider, and Christian G. Hübner</i>	
11:33	15	Inkjet printing of surfactants, proteins and enzymes for biomedical applications <i>K. Hering, S. Björklund, S. Klein, V. Kocherbitov, and T. Ruzgas</i>	
11:45	Lunch Break		

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Biomedical Engineering Chair: Prof. Dr. Stefan Müller		
12:45	16	Micro alignment of optical components – A comparative study about adhesives – <i>N. Tobies</i>
12:57	17	Setup for Estimation of Absolute Subcutaneous Water Content by Noninvasive Spatial Resolved Diffuse Reflectance Measurement <i>H. Köhler, O. Fugger, and A. Vogel</i>
13:09	18	Design and development of a steering platform for an innovative infusion system <i>M. Al Msalma, S. Abdul-Karim, J. Schroeter, and B. Nestler</i>
13:21	19	Characterisation, installation and functional testing of a collimator at a research linear accelerator <i>J. Beer</i>
13:33	20	Development of a Test Facility for non-invasive Ventilation Equipment <i>M. Apostel and S. Schimpf</i>
13:45	21	Validation of non-invasive, neonatal blood pressure cuffs <i>B. Al-Tashi and Thomas Graßl</i>
13:57	22	Optimization and Evaluation of a Positive End-Expiratory Pressure Valve for Dräger Anesthesia Machines <i>L. Davenport and R. Weikert</i>

14:09	Coffee Break	
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Safety and Quality Chair: Dr. Alexander Neumann		
14:24	23	Determination of action forces applied by users – To make a medical device more reliable – <i>K. Steppke, A. Kunath, F. Grüner, J. Ingenerf, and H. Handels</i>
14:36	24	Completion of a Test Bench to Verify the Peel Adhesion of Medical Devices: Software Development and Validation <i>A. Riebesel, M. Vienenkoetter, D. Dreffkorn, and P. Rostalski</i>
14:48	25	Qualification of a new Cutplotter for ULTRAPRO COMFORT PLUG™ <i>A. Boy, T. Licht, J. Haidar, and J. Völkel</i>
15:00	26	Creation of a new test method and a validation strategy for the visual inspection of LDPE-bags <i>Q. Kelmendi, C. Maser, and S. Schoenfisch</i>
15:12	27	Determining the proportionality of the right and left pupil distance using the video centration system and establishing a measuring method with high accuracy and high reproducibility for determining the pupil distance (PD) <i>P. Flesch, O. Schmidt-Kiy, and A. Ritsche</i>

15:24	Coffee Break	
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E-Health Chair: Dr. Josef Ingenerf		
15:39	28	Adaptation to a prototype system for the bidirectional communication in the MRI environment on clinical issues <i>M. Lewke, K. Rackebbrandt, and H. Gehring</i>
15:51	29	Test Automation Framework for an HL7 integration engine <i>S. Heusel, S. Gisch, S. Mersmann, and J. Ingenerf</i>
16:03	30	Converting HL7v2.6 to FHIR – One method on how to perform it – <i>Mattes Rhein, Stefan Schlichting, and Josef Ingenerf</i>
16:15	31	Device Metric processing with FHIR – from device observation report to device metrics bundle – <i>D. Rehmann, G. Meinke, and J. Ingenerf</i>
19:00	Pizzaessen im Restaurant San Marco	