

Scientific Program

Thursday, March, 12, 2015

Biomedical Optics I Chair: Prof. Dr. A. Vogel		
09:00	01	Anterior segment Doppler optical coherence tomography <i>I. Ellerkamp, D. Choi, G. Hüttmann, A. K. Ellerbee</i>
09:15	02	Characterization of a micro machined deformable membrane mirror using optical coherence tomography <i>C. Pfäffle, G. Hüttmann, H. Sudkamp</i>
09:30	03	Setup implementation for optical measurements of refractive index changes inside of bovine lenses <i>J. C. Schwarzer, E. Vaghefi, R. Birngruber</i>
09:45	04	Optically Monitored Selective Laser Trabeculoplasty <i>A. Shpychak, K. Bliedtner, E. Seifert, R. Brinkmann</i>
10:00	Coffee Break	
Biomedical Optics II Chair: Dr. G. Hüttmann		
10:15	05	Development of standardized tissue phantoms for evaluation of Holographic Photoacoustic Tomography <i>B. Schmarbeck, M. Muentner, J. Horstmann, C. Buj, R. Brinkmann</i>
10:30	06	Investigation of the influence of pulse variations on photoacoustic response and damage thresholds for laser induced bubble formation at the fundus of the human eye <i>G. Vogel, K. Schlott, R. Brinkmann</i>
10:45	07	Development of a new, non-invasive, laser-assisted experimental model for Fuchs Endothelial Dystrophy <i>A. Pahl, S. Grisanti, A. Vogel, F. Reinholz, M. Ranjbar</i>
11:00	08	FT-IR investigation of the nonlinear optical crystal CLBO <i>O. Ragulina, R. Brinkmann, R. von Elm, J. Lawrenz</i>
11:15	Coffe Break	
Biochemical Physics Chair: Prof. Dr. C. Hübner		
11:30	09	LED-based Illumination Set-up for in vitro Photodynamic Therapy <i>S. A. Abedi, A. Rodewald, K. Scheffler, R. Rahmanzadeh</i>
11:45	10	Construction and implementation of a simple stopped-flow apparatus for the investigation of rapid kinetics using confocal fluorescence microscopy <i>H. Müller, C. G. Hübner</i>
12:00	11	Fluorescence Properties and Cytotoxicity of Nanoparticle-Based Ratiometric Fluorescent Thermometer on RPE Cells <i>S. Adler, G. Hüttmann, Y. Miura</i>
12:15	12	Comparative study of the gamma-spectrometers <i>C. Treig, J. Schorch, E. König, C. Schmidt</i>
12:30	13	Re-setup of a nitrogen cooled Ge-detector in combination with a Canberra multi-channel analyzer for determination of terrestrial radiation sources <i>E. König, J. Schorch, C. Treig, C. Schmidt</i>
12:45	Lunch Break	

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Biomedical Engineering Chair: Dr. F. Reinholz		
13:45	14	Dispension of a bead suspension into small vessels <i>N. Blimke, E. Hoffmann, R. Rahmanzadeh, L. Richter</i>
14:00	15	Simulation of torque acting on a joint of an exoskeleton for stroke rehabilitation <i>G. Männel, A. Gabrecht, P. Weiss, E. Maehle</i>
14:15	16	Determination of Measurement Characteristics of a Sensor for Blood Leakage in Hemodialysis <i>D. Prox, A. Röse</i>
14:30	17	Feasibility study - Checking if and which valve system is usable to control a pressure controlled valve from a breathing machine <i>R. Holzhausen, B. Adametz, S. Franke</i>
14:45	Coffe Break	
Safety and Quality I Chair: Dr. K. Lüdtke-Buzug		
15:00	18	Investigation of the APICA ASC device for the delivery of mitral valve therapies <i>M. Seiler</i>
15:15	19	Technical reequipment and restructuring of endoscopic department at the hospital Demmin <i>F. Mummert, C. Lehrkamp</i>
15:30	20	Developing a procedure to test the compatibility of flexible endoscopes with an Endo-Thermo-Disinfector (ETD) <i>J. G. Grimm, B. Ottens</i>
15:45	21	Development of a level indicator for process chemicals of an automated endoscopy reprocessor <i>J. Markmann, B. Ottens, S. Eschborn</i>
16:00	22	Developing a Type Test for the Contamination-Monitor with Gamma Detectors with Focus on Detector Homogeneity - For Four Different Nuclides - <i>M. Zehlke, T. Bär, H. Paulsen</i>
16:15	Coffe Break	
Safety and Quality II Chair: Dr. P. Rostalski		
16:30	23	Development of a luminous field measurement station and comparision of a consumer LED headlight and a HEINE(R) LED LoupeLight <i>M. Fischer, B. Kabbeck, O. Heine</i>
16:45	24	Temperature dependencies in surgical lights - investigation and compensation concept <i>F. Strahwald</i>
17:00	25	Risk Management Report for Medical Ceiling Supply Units in IBM Rational DOORS <i>G. Maltzen, A. Mess, M. Leucker</i>
17:15	26	Analysis of field of Application for Coordinate Measuring Machienes in the Medicine especially in the Osteosurgery and Dentalsurgery <i>R. Saraei</i>
19:00	Pizzaessen im Restaurant L'Osteria	