Program of the third Optics and Measurement International Conference
11 - 14 October 2016

Tuesday 11th October 2016

18.00 - 20.00	Registration and Welcome Drink in the Grand Hotel Imperial Liberec

LECTURES

Wednesday 12th October 2016

8.00 - 11.00	Registration	
9.00	Opening	
9.15	Guido Gubbels	*Grinding and polishing of a steep freeform lens*
9.45	Gerald Fütterer	*Field lens multiplexing in holographic 3D displays by using Bragg diffraction based volume gratings*
10.00	Karolina Macúchová	*Innovative opto-mechanical design of a laser head for compact thin-disk*
10.15	Štepán Kunc	*Passive optical resonator for experiment OSQAR LSW*
10.30	Karel Blažek	*CRYTUR, spol. s r. o.*
10.45	Coffee Break	
11.15	Karel Žídek	*Imaging in laser spectroscopy by a single-pixel camera based on speckle patterns*
11.30	Celestino Ordoñéz	*Automatic road edge detection from Mobile Laser Scanning (MLS)*
11.45	Petr Březina	*When the measurement fails - vibrations in environment, trends, and solutions*
12.00	Gerald Fütterer	*Reducing forces during drilling brittle hard materials by using ultrasonic and variation of coolant*
12.15	Jaroslav Polák	*Time to involve neural networks into optimization of polishing process*
12.30	Lunch	
14.00	Sven R Kiontke	*Challenges in manufacturing high precision aspheric lenses*
14.30	Cyril J Bourgenot	*Diamond machining of a single shot ellipsoidal focusing plasma mirror*
14.45	Celestino Ordoñéz	*Detection and magnification of bridge displacements using video images*
15.00	Dmitriy Vorontsov	*Characterization of diffraction gratings scattering in UV and IR for space applications*
15.15	Darina Jašíková	*Visualization and measurement of the air film close ultrahydrophobic surfaces*
15.30	Coffee Break	
16.00 16.30	bus no. 1 bus no. 2	Tour of the Glass factory

Thursday 13th October 2016

9.00	Ulrike Fuchs	*Thoughts on tolerancing aspheric surfaces for optimized manufacturing*
9.30	Marek Škereň	*Diffractive beam shapers for white LED illumination systems*
9.45	Guoyu Yu	*Development of Swinging Part Profilometer for Optics*
10.00	Alexandre Z Guarato	*Qualification of a 3D structured light sensor for a reverse engineering application*
10.15	Jean Pierre Lormeau	*Freeform metrology using subaperture stitching interferometry*
10.30	Vít Lédl	*TOPTEC Research Centre*
10.45	Coffee Break	
11.15	Libor Švéda	*Simulations of lenseless imaging in water window*
11.30	Martin Klečka	*OptiXs, s.r.o.*
11.45	Pavel Psota	*Multi-wavelength digital holography for shape measurement of grinded surfaces with ultimate accuracy*
12.00	Jan Kredba	*Positioning system and lattice design for subaperture stitching interferometry*
12.15	Josef Lazar	*Real-time Measurement of Gigacycle Fatigue through Differential Interferometry*
12.30	Lunch	
14.00	Karel Blažek	*Company view on the R&D, technology transfer and market in the scintillation field.*
14.30	Marek Peca	*Absolute and relative surface profile interferometry using multiple frequency-scanned lasers*
14.45	Libor Mrňa	*Use of schlieren methods for studying of gas flow in laser technology*
15.00	Pavel Mokrý	*Digital holographic tomography method for 3D observation of domain patterns in ferroelectric single crystals*
15.15	Libor Úlehla	*Meopta - optika, s.r.o.*
15.30	Coffee Break	
16.00	Stefan Krämer	*Mahr Metrology for Precision Optics*
16.15	Libor Moťka	*Wavefront detection by Shack-Hartmann sensors*
16.30	Yahya Yuksek	*Plasmonic resonances in sub-terahertz fishnet metamaterial based on complementary hexagonal resonator*
16.45 - 17.30	**Poster Session**	
17.30 - 17.45	**Best Student Czech & Slovak Paper Award**	
19.00	Informal Meeting in the Puor Plaudit Reastaurant	

POSTER SESSION

Thursday,13th October 2016, 16.45 - 17.30

Board	Prime Author	*Title*
01A	Arkadiusz Swat	*Minimising back reflections from the common path objective in a fundus camera*
01B	Darina Jašíková	*Experimental setup for laser-induced breakdown in aqueous media*
02A	David Vápenka	*Attempt to prepare perovskite PZT at low temperatures using IBAD*
02B	Domna G Kotsifaki	*Design and experimental evaluation of the optical trapping technique which is integrated with microfluidic device and/or plasmonic nanostructure device*
03A	Karel Žídek	*Compact and robust hyperspectral camera based on compressed sensing*
03B	František Procháska	*Zeeko Precession for free form polishing*
04A	Ivana Poláková	*Subaperture teflon tools in their application in CNC polishing machines*
04B	František Procháska	*FEM analysis of bonding process used for minimization of deformation of optical surface under Metis coronagraph mirrors manufacturing*
05A	Jan Hošek	*Geometric Calibration of Rotational Kaleidoscopic Instrument*
05B	Jan Václavík	*Durable Antireflection Coating for Ge and ZnSe Substrates Based on Ge/YF3 Multilayer*
06A	Jirí Budasz	*Losses in TiO2/SiO2 Multilayer Coatings*
06B	Jiří Hlubuček	*Control of chemical composition of PZT thin films produced by ion-beam deposition from a multicomponent target*
07A	Jirí Budasz	*Broadband antireflective coating for NEOSTED*
07B	Jiří Beneš	*The Design of the Control Algorithm for Corrective Manufacturing of 5 axis Machining Centre*
08A	Marek Škereň	*Matrix laser lithography as a tool for producing of general diffractive elements*
08B	Martin Veselý	*The mounting system of lenses in ASPIICS coronagraph*
09A	Michal Špína	*Scratch and dig analysis for Metis mirrors surfaces defects evaluation*
09B	Miroslava Holá	*Coordinate interferometric system for measuring the position with infrared telecom laser diode*

10A	Ondřej Matoušek	*Methods for refractive-index homogeneity calculation using Fourier-transform phase-shifting interferometry*
10B	Pavel Mokrý	*Iterative method for solving the eikonal equation*
11A	Petr Horník	*Possibilities in optical monitoring of laser welding process*
11B	Pavel Mokrý	*Multi-scale simulations of the wavefront deformation of the optical wave passing through the domain patterns in ferroelectric single crystal*
12A	Petr Pokorný	*Effect of finite dimensions of diffraction grating to Talbot imaging*
12B	Pavel Psota	*Robust retrieval of optical surfaces phase maps in sub-Nyquist multi-wavelength interferometry*
13A	Pavel Pintr	*Four new variable stars in Cassiopea discovered with DSLR camera*
13B	Petr Vojtíšek	*Monitoring of overmodulation effect in high efficient generally slanted transmission gratings produced in photopolymers*
14A	Zdeněk Rail	*The Simulation of the Residual Optical Aberrations of the 8″ Clark Objective of the Astronomical Observatory in Ondřejov*
14B	Petra Horodyská	*Influence of oxygen on the quality of the PZT thin films prepared by IBS*
15A	Radek Melich	*Design, manufacturing, performance and application of a wide angle aspherical doublet*
15B	Roman Doleček	*Heat and mass transfer measurement using method of digital holographic tomography*
16A	Stanislav Michal	*Correction of Ti-sapphire disc using MRF method*
16B	Tomáš Thoř	*Sol-gel preparation of Silica and Titania thin films*
17A	Vít Lédl	*Sensitivity vector map retrieval in multiwavelength holography used for shape measurement*
17B	Marek Stašík	*Sub-aperture stitching for data measured on spherical and aspherical lenses using interferometry*