

AUGUST 23, 2011 – Tuesday

18:00 – 20:00	Registration
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AUGUST 24, 2011 – Wednesday

08:00 – 09:00	Registration	
09:00 – 09:15	Opening <i>Pavel Tománek, Miroslav Jedlička</i>	Hall A
09:15 – 10:45	Plenary Session <i>Chair: Miroslav Jedlička</i>	
09:15 – 10:00	Plenary Talk Towards Green High Capacity Optical Networks <i>Ivan Glesk</i>	
10:00 – 10:45	Plenary Talk The Physics in Applications of Ultrafast Lasers <i>Reinhart Poprawe</i>	
10:45 – 11:15	Coffee Break	
11:15 – 12:45	Plenary Session <i>Chair: Helena Jelínková</i>	Hall A
11:15 – 12:00	Plenary Talk Light: The Physics of the Photon <i>Ole Keller</i>	
12:00 – 12:45	Plenary Talk Biophotonics Beyond the Diffraction Limit <i>Volker Deckert</i>	
12:45 – 14:00	Lunch Break	
14:00 – 16:00	Nanophotonics + Nanooptics <i>Chair: Pavel Tománek</i>	Hall A
14:00 – 14:30	Invited Talk Liquid Microdroplets on a Superhydrophobic Surface: A Promising System for Optofluidics Research <i>Alper Kiraz</i>	
14:30 – 15:00	Invited Talk All-Optical Multi-dimensional Imaging of Energy-Materials Beyond The Diffraction Limit <i>Steve Smith</i>	
15:00 – 15:15	The Physics of Subwavelength-patterned Plasmonic Nanostructures Revealed with Approximate Analytical Models <i>Jan Fiala, Ivan Richter</i>	
15:15 – 15:30	Partial Polarization of Pulsed Light Beams <i>Timo Voipio, Tero Setälä, Ari T. Friberg</i>	
15:30 – 15:45	Surface Plasmon Polariton Amplification in Metal-Semiconductor Structures <i>Dmitry Fedyanin, Aleksey Arsenin</i>	
15:45 – 16:00	Advanced Optical Manipulation with Tailored Counter-propagating Laser Beams <i>Oto Brzobohatý, Tomáš Cizmar, Martin Šiler, Vítězslav Karásek, Pavel Zemánek</i>	

16:00 – 16:30	Coffee Break	
16:30 – 17:45	Solid State Lighting + LED, LD, OLED, Solar Cells <i>Chair: Steve Smith</i>	Hall A
16:30 – 16:45	Local Measurement of Solar Cell Characteristics <i>Pavel Škarvada, Pavel Tománek, Robert Macků, Lubomír Grmela</i>	
16:45 – 17:00	Investigation of the Photon Emission from Pn Junction of Silicon Solar Cells Studied by Electro-Optical Methods <i>Robert Macků</i>	
17:00 – 17:15	Combined Plasmonic Gratings in Thin Organic Solar Cells <i>Bjorn Maes</i>	
17:15 – 17:30	Study of Active Nd-doped Silicon Rich Silicon Oxide Planar Waveguides <i>Parastesh Pirasteh, Joel Charrier, Yannick Dumeige, Jean-Louis Doualan, Patrice Camy, Olivier Debieu, Yann Boucher, Fabrice Gourbilleau</i>	
17:30 – 17:45	Investigation of Optical Properties of SiC/(SiC)_{1-x}(AlN)_x Heterostructures <i>Dinara Dallaeva, Bilal Bilalov, Malik Kurbanov, Gyulnara Kardashova, Shihgasan Ramazanov</i>	
16:30 – 17:15	Design and Simulation of Photonic Devices <i>Chair: Ivan Glesk</i>	Hall B
16:30 – 16:45	Preparation and Characterization of Bottle Optical Microresonators with Cylindrical and Hexagonal Cross-sections <i>Filip Todorov</i>	
16:45 – 17:00	The Cavity Resonator Design: Stochastic Optimization of Transmission Line Model <i>Stanislav Jurečka</i>	
17:00 – 17:15	Holographic Techniques for Laser Scanning Microscopy Longitudinal Resolution Enhancement <i>Yuri Zakharov</i>	
17:15 – 17:45	Guided Wave Photonics <i>Chair: Alper Kiraz</i>	
17:15 – 17:30	Broadband Dispersion Compensating Photonic Crystal Fiber <i>Michal Lucki, Richard Zelený</i>	
17:30 – 17:45	Dynamical Properties of a Coupled Nonlinear Dielectric Waveguide - Surface-Plasmon System as a New Type of Josephson Junction <i>Yasa Eksioğlu</i>	
19:00	Meeting Point by the Registratıon Desk	
19:30	Welcome Reception at the Mayor of City of Prague Residence Mariánské náměstı Prague 1, Old Town (Staré Město)	

AUGUST 25, 2011 – Thursday

09:00 – 10:30	Lasers and Photodetectors in Industry, Imaging and Sensors <i>Chair: Reinhart Poprawe</i>	Hall A
09:00 – 09:15	Preparation and Characterization of Highly Thulium and Alumina-doped Optical Fibers for Single-frequency Fiber Lasers <i>Pavel Honzátko, Anirban Dhar, Ivan Kasik, Ondřej Podrazký, Vlastimil Matějec, Pavel Peterka, Wilfried Blanc, Bernard Dussardier</i>	
09:15 – 09:30	Position Measurement in Standing Wave Interferometer for Metrology of Length <i>Josef Lazar, Jindřich Oulehla, Pavel Pokorný, Ondřej Číp, Jan Hrabina</i>	
09:30 – 09:45	Preparation of Spherical Optical Microresonators and Their Resonance Spectra in Air and Gaseous Acetone <i>Vlastimil Matějec</i>	
09:45 – 10:00	A Discussion on Often Overlooked Sources of Error in Laser-Speckle Based Systems <i>Bernhard Zagar, Johannes Lettner</i>	
10:00 – 10:30	Invited Talk Physics and Technology of Nanoscale Optoelectronics <i>Hakan Pettersson</i>	
10:30 – 11:00	Coffee Break	
11:00 – 12:15	Lasers and Photodetectors in Industry, Imaging and Sensors <i>Chair: Josef Lazar</i>	Hall A
11:00 – 11:30	Invited Talk Sub-Wavelength Scale THz Source via Optical Rectification and its Spatio-Temporal Properties <i>Sze Phing Ho, Matteo Clerici, Marco Peccianti, Fabrizio Buccheri, Alessandro Busacca, Ozaki Tsuneyuki, Jalil Ali, Roberto Morandotti</i>	
11:30 – 11:45	Optical Loop Memory Based on Controlling the Lasing of Optical Fiber Loop Amplifiers Using a Wavelength-tunable Add/drop Filter <i>Hirokazu Tanimoto, Yoshinobu Maeda, Hideki Nakayama</i>	
11:45 – 12:00	Measurement of Vibrations at Different Sections of Rail Through Fiber Optic Sensors <i>Amparo Barreda</i>	
12:00 – 12:15	Silicon Micro Sensors as Integrated Readout Platform for Colorimetric and Fluorescence Based Opto-chemical Transducers <i>Mathias Will</i>	
12:15 – 14:00	Lunch Break	
14:00 – 16:15	Biophotonics <i>Chair: Volker Deckert</i>	Hall A
14:00 – 14:30	Invited Talk Nanoparticle Accumulation in Angiogenic Tissues: The Good, the Bad and the Predictable <i>David Cramb</i>	
14:30 – 14:45	Laser Evaporation of Models of Normal and Tumoral Biological Tissues <i>Vladimir Kortunov, Valery Ulyanov, Aleksandr Dmitriev, Alexey Konovalov, Oleg Matorin, Igor Reshetov</i>	

14:45 – 15:00	Metamaterial Resonator Arrays for Organic and Inorganic Compound Sensing <i>Luigi La Spada</i>	Hall A
15:00 – 15:15	Investigating Positive Surgical Margins of Prostate Tissues Using Elastic Light Single-Scattering Spectroscopy <i>Murat Canpolat</i>	
15:15 – 15:30	Confocal and Focus Scanning Technique for Investigation of Neural and Glia Pattern Activity Synchronism <i>Irina Mukhina</i>	
15:30 – 15:45	Photosensitizer Fluorescence Emission During Photodynamic Therapy Applied to Dermatological Diseases <i>Irene Salas-García, Félix Fanjul-Vélez, Noé Ortega-Quijano, José Luis Arce-Diego</i>	
15:45 – 16:00	Optical Micromanipulations and Raman Spectroscopy in Microfluidic Systems for Live-cell Analysis and Sorting <i>Zdenek Pilát, Ota Samek, Pavel Zemánek</i>	
16:00 – 16:15	Accommodation and Vergence Infrared Measurement Using Hologram Stimulus <i>Tomáš Jindra, Jaroslav Dušek, Miroslav Dostálek, Pavel Fiala, Marek Skeren</i>	
16:15 – 16:45	Coffee Break	
16:45 – 18:45	Poster Session	
	Design of 1 x 3 Polymer Optical Power Divider <i>Václav Prajzler, Hynek Tůma, Oleksiy Lyutakov, Ivan Huttel, Jarmila Spirková, Vítězslav Jeřábek</i>	
	A study of dielectric loss mechanisms in TlSbS₂ thin films <i>Deniz Deger Ulutas, Murat Parto, Kemal Ulutas</i>	
	Photoluminescence Properties of Polynaphthalisoimides and Polynaphthalimides in Solutions and Thin Layers <i>Andrzej Wanic</i>	
	Relaxation Processes of Thulium and Ytterbium Excited States in Co-doped Oxyfluoride Silicate Glasses and Glass-ceramics <i>Radosław Lisiecki</i>	
	Deformation Measurement Along Two Directions of a Continuously Deforming Object by Using Two Lasers and One Color Camera <i>Toshihiro Senzawa, Masaaki Adachi</i>	
	CCD Noise Influence on JPEG2000 Compression of Astronomical Images <i>Petr Páta</i>	
	Photoluminescence Properties of Rare-earth Ions in TeO₂-WO₃-PbO-La₂O₃ Glasses <i>Zbigniew Mazurak, Bożena Burtan, Jan Cisowski, Maria Czaja, Radosław Lisiecki, Witold Ryba-Romanowski, Manuela Reben, Jan Wasylak</i>	
	First Demonstration of Triple Cross Correlation: Applications to Quantum Dot - DNA Dendrimers <i>Holly Wobma</i>	
	Wavelet Transform for Processing of Video from MAIA System <i>Elena Anisimova, Petr Páta, Martin Blažek, Karel Fliegel, Pavel Koten, Stanislav Vítek</i>	
	The Effect of Pr³⁺ Ion Concentration on Photoluminescence of Telluride-tungstate Glasses <i>Jan Cisowski</i>	

	<p>Influence of Deposition Conditions of ZnO Thin Films on Their Photonic Properties <i>Marie Netrvalová, Lucie Prušáková, Petr Novák, Pavol Šutta</i></p>
	<p>Light Polarization State Analyzer Based on Two Spatial Carrier Frequency Method <i>Slawomir Drobczynski</i></p>
	<p>Study of Thin Films of LiNbO₃ Using FTIR and Raman Spectroscopy <i>Markéta Zezulová, Miroslav Jelínek, Vladimír Železný, Tomáš Kocourek</i></p>
	<p>Synthesis of ZnO Nanostructures with Different Morphologies by a Direct Melt Oxidation of Al-Zn Mixture <i>Geun-Hyoung Lee</i></p>
	<p>Modeling of a Fiber-optic Sensor Based on Surface Plasmon Resonance Including the Dispersion of the Analyte <i>Dalibor Ciprian</i></p>
	<p>Photosensitive Polyurethanes for Optical Record <i>Andrejs Gerbreders</i></p>
	<p>Novel Ene-Yne Compounds as Quadratic Nonlinear Optical Materials <i>Georg A. Reider, Lumpi Daniel, Horkel Ernst, Stoeger Berthold, Hametner Christian, Kubel Frank, Hans R. Hagemann, Alfred Karpfen, Johannes Froehlich</i></p>
	<p>Designing of Binary Diffractive Optical Elements for Beams Performing <i>Lorenzo Cozzella, Giuseppe Schirripa Spagnolo</i></p>
	<p>Theoretical Near-field Studies of Photon Emission Related to Evanescent Modes from Quantum Wells <i>Dann Skou Olesen</i></p>
	<p>Local Laser-induced Crystallization of Lanthanum Boron Germanate Glass Near LaBGeO₅ Composition <i>Sergey Lotarev</i></p>
	<p>Influence of Temperature and Concentration onto Luminescence of K₅Li₂La_{1-x}NdxF₁₀ <i>Piotr Solarz</i></p>
	<p>Magneto-optical Effects in Reflection from Crystal with Reduced Symmetry <i>Tibor Fördös, Kamil Postava, Jaromír Pištora</i></p>
	<p>The Vibrations of Proteins in THz Frequency Domain <i>Maria Mernea</i></p>
	<p>Development of Solid-State Lamps for Plant Cultivation in Greenhouses <i>Algirdas Novičkovas, Giedrė Samuolienė, Auąra Brazaitytė, Pavelas Duchovskis, Sirtautas Ramūnas, Pranciąkus Vitta, Artūras Žukauskas</i></p>
	<p>Application of Infrared ATR Ellipsometry for Measurement of Solid Samples <i>Zuzana Mrázková</i></p>
	<p>Spatial Optical Analogue of the Superradiance Effect in a Photorefractive Photonic Lattice <i>Vladimir Shandarov, Ksenia Shandarova, Pavel Trenikhin, Feng Chen</i></p>
	<p>THz Time Domain Spectroscopy at Cellulose Crystallinity Degree in Old Wood Artifacts <i>Oana Sandu, Ludmila Otilia Cinteza, Ana Emandi, Maria Mernea, Dan Mihailescu, Traian Dascalu</i></p>
	<p>Blue and UV E-beam Pumped Lasers Based on A₂B₆ Nanostructures with Resonant Periodic Gain <i>Petr Kuznetsov</i></p>

	WDM Hybrid Microoptical Transceiver with Bragg Volume Grating <i>Vítězslav Jeřábek, Julio Joaquin Armas Arciniega, David Mareš, Václav Prajzler</i>
	Performance Evaluation of Fast, High Precision Laser Rangefinder Electronics with a Pulsed Laser <i>David Vyhlídal</i>
	Investigation of Nonlinear Chalcogenide Fiber Bragg Gratings as a Promising Tool for All-optical Switching <i>Eliška Jurisová, Jarmila Müllerová</i>
	Multimode Fiber-based Transmitter for Free Space Optical Communications <i>Irene Salas-García, Félix Fanjul-Vélez, Otakar Wilfert, Martin Hampl, Noe Ortega-Quijano, Jose Luis Arce-Diego</i>
	Polarization of Scattered Light in Biological Tissue <i>Mohamed Abubaker Hamed, Pavel Tománek</i>
	LED Applications in Road and Railway Signals: Is It Possible to Fit Specifications? <i>Donato Papalillo, Giuseppe Schirripa Spagnolo</i>
	Stabilization of DFB Laser Diodes with 760 nm and 1541 nm Wavelength <i>Břetislav Mikel, Zdeněk Buchta, Josef Lazar, Ondřej Číp</i>
	Light Source for Low-Coherence Interferometry Combining LED and Single Mode Optical Fiber <i>Zdeněk Buchta, Břetislav Mikel, Šimon Řeřucha, Josef Lazar, Ondřej Číp</i>
	Diamond Raman Laser in Eye Safe Region <i>Helena Jelínková, Ondřej Kitzler, Michal Jelínek, Jan Šulc, Michal Němec, Václav Kubeček</i>
	Multi-channel Single Photon Receiver for Telecommunication Wavelength Range <i>Konstantin Smirnov, Yury Vachtomin, Alexander Divochiy, Roman Ozhegov, Ivan Pentin, Elisaveta Slivinskaya, Gregory Goltsman</i>
	Graphene Oxide –Hybrid Glass Nanocomposite Coating <i>Łukasz John, Anna B. Wojcik</i>

AUGUST 26, 2011 – Friday

09:00 – 09:45	Organic Photonic Materials and Devices <i>Chair: Vlastimil Matějec</i>	Hall A
09:00 – 09:15	Semiconductor – LC layer Boundary and Photonic Structures <i>Andrzej Walczak</i>	
09:15 – 09:30	Electrooptical Properties of New Diketo-pyrrolo-pyrroles <i>Martin Vala, Martin Weiter, Stanislav Luňák Jr., Jan Vyňuchal</i>	
09:30 – 09:45	High Performance Low Refractive Index Sol-Gel Hybrids for Photonic Applications <i>Łukasz John, Anna B. Wojcik, Sławomir Szafert</i>	
09:45 – 10:00	Photonics – Education and Multimedia <i>Chair: Hakan Pettersson</i>	
09:45 – 10:00	Holographic Grating – a Useful Tool <i>Dagmar Senderáková</i>	

10:00 – 11:30	Diffractive Photonic Devices <i>Chair: Dagmar Senderáková</i>	Hall A
10:00 – 10:30	Invited Talk Synthesis of Diffractive Structures <i>Libor Kotačka, Petr Vizdal, Tomáš Běhounek</i>	
10:30 – 11:00	Coffee Break	
11:00 – 11:15	Optoelectronic Systems with Delayed Acousto-optic Feedback <i>Vladimir Balakshy, Yuri I. Kuznetsov</i>	Hall A
11:15 – 11:30	Resonance Waveguide Gratings for Optical Pulse Temporal Differentiation <i>Dmitrii Bykov, Leonid Doskolovich, Viktor Soifer</i>	
11:30 – 12:15	Guided Wave Photonics <i>Chair: Hakan Pettersson</i>	
11:30 – 11:45	Novel Nonlinear Optical Effects in Bose-Einstein Condensate <i>Andrey Grankin, Maria Komissarova, Anatoly Sukhorukov</i>	
11:45 – 12:15	Invited Talk Comparison of 2D and 3D Fourier Modal Method Modeling of Subwavelength-Structured Grating Waveguides <i>Jiří Čtyroký, Pavel Kwiecien, Ivan Richter</i>	
12:15 – 14:00	Lunch Break	
14:00 – 14:30	Non-linear Materials, Devices and Applications <i>Chair: Jiří Čtyroký</i>	Hall A
14:00 – 14:15	Dual Pulse Operation of 1.5 μm Picosecond Intracavity Synchronously Pumped Optical Parametric Oscillator <i>Alena Zavadilová, Václav Kubeček, Jean-Claude Diels, Jan Šulc</i>	
14:15 – 14:30	Optical Self-action of Light Beams in Photorefractive Fabry-Perot Interferometers <i>Vladimir Shandarov, Anton Perin, Feng Chen</i>	
14:30 – 15:00	Photonic Crystals and Photonic Bandgap Structures <i>Chair: Sze Phing Ho</i>	
14:30 – 14:45	Single Particle Induced Resonance Frequency Shift in a Hollow Photonic Crystal Cavity <i>Nicolas Deschermes</i>	
14:45 – 15:00	Modeling of Reflection and Tunneling of Light Pulses in the Forbidden Gap of a 1D Photonic Crystal <i>Konstantin Zharikov, Sergey Marchenko, Irina Zakharova</i>	
15:00 – 15:15	SPIE Best Student Award Closing <i>Pavel Tománek</i>	