PHOTONICS PRAGUE 2008

The 6th International Conference on Photonics, Devices and Systems

August 27 - 29, 2008, Olympik - Artemis Conference Centre, Prague, Czech Republic

AUGUST 27, 2008 – Wednesday

09:00 – 09:10	**Opening** *Pavel Tománek, Miroslav Jedlička*	**Hall A**
09:10 – 10:30	**Plenary Session** *Chair: Miroslav Jedlička*	
09:10 – 09:50	**Plenary Talk** **Theodore Harold Maiman and the History of Laser Invention** *Andrew H. Rawicz*	
09:50 – 10:30	**Plenary Talk** **Disk, Fiber, Rod, Slab - New Laser Concepts Open New Application Perspectives** *Reinhart Poprawe*	
10:30 – 11:00	**Coffee Break**	
11:00 – 12:30	**Plenary Session** *Chair: Pavel Tománek*	**Hall A**
11:00 – 11:40	**Plenary Talk** **Structured Light Fields for the Biosciences** *Kishan Dholakia*	
11:40 – 12:20	**Plenary Talk** **Controlling Light at the Nanoscale Using Plasmonic Antennas and Nanostructures** *Olivier J.F. Martin*	
12:20 – 14:00	**Lunch**	
14:00 – 14:50	**Diffractive Photonic Devices** *Chair: Dagmar Senderáková*	**Hall A**
14:00 – 14:20	**Invited Talk** **Syntetized Holography with Resolution 500.000 dpi, Holografic Dust, Computer Readed Holograms, Nanogravure** *Libor Kotačka*	
14:20 – 14:35	**Study of Enhanced Optical Transmission Through Subwavelength Apertures** *Jan Fiala, Ivan Richter*	
14:35 – 14:50	**Fabrication and Characterization of the Thermally Tunable Grating by Means of the Dependence of the Refractive Index of Liquids to Temperature and it's Ability as a Switching Device in Communication** *Mohammadreza Riahi, Hamid Latifi*	
14:50 – 15:20	**Education in Photonics** *Chair: José-Luis Arce-Diego*	
14:50 – 15:05	**Colour-matching Functions as a Solution of an Eigenproblem** *Miroslav Dohnal*	
15:05 – 15:20	**Education in our Laboratory of Coherent Optics** *Dagmar Senderáková, Martin Koys, Vladimír Mesároš, Anton Štrba*	

14:00 – 15:30	**Nanophotonics and Nanooptics I.** *Chair: Pavel Zemánek*	**Hall B**
14:00 – 14:20	**Invited Talk** **Photonic Planar Metamaterials: Spectral Selectivity, Magnetic Mirror, Optical Activity and Asymmetric Transmission** *Vassili A. Fedotov, Nikolay I. Zheludev*	
14:20 – 14:40	**Invited Talk** **Revisiting Optics with Surface Plasmons** *Romain Quidant*	
14:40 – 15:00	**Invited Talk** **Passive Surface Plasmon Optics** *Andreas Hohenau, D. Koller, N. Galler, F. Reil, H. Ditlbacher, A. Leitner, F. R. Aussenegg, J.R. Krenn*	
15:00 – 15:15	**Delivery of Multi-particle Chain by an Optical Conveyor Belt** *Martin Šiler, Tomáš Čižmár, Alexandr Jonáš, Pavel Zemánek*	
15:15– 15:30	**Decay Rate Measurement of Perylene Dye Molecules Attached to Porous Silicon Nanostructures** *M Naci Inci, Bukem Bilen, Sabriye Acikgoz*	
15:30 – 16:00	**Coffee Break**	
16:00 – 17:15	**Photonic Biosensors** *Chair: Lars Thrane*	**Hall A**
16:00 – 16:20	**Invited Talk** **Digital Holographic Phase Contrast Microscopy: A New Technology in Biophotonics** *Gert von Bally*	
16:20 – 16:40	**Invited Talk** **Advanced Raman Spectroscopy in Life Sciences** *Jürgen Popp*	
16:40 – 17:00	**Invited Talk** **Surface Plasmon Resonance Biosensors: Present and Future** *Jiří Homola*	
17:00 – 17:15	**Polymer Waveguide Based Biosensor** *Roman Bruck, Rainer Hainberger*	
17:15 – 18:00	**Organic Photonic Materials and Devices** *Chair: Roberto Morandotti*	
17:15 – 17:30	**Stimulated Emission of Laser Dyes in Opal-like Matrix - Photonic Crystal** *Yurii V. Orlovskii, Olimkhon K. Alimov, Tasoltan T. Basiev*	
17:30 – 17:45	**Studies of Light Driven Redistribution of Si-MFI Nanoparticles in an Acrylamide-based Photopolymer Holographic Gratings** *Aleksander M. Ostrowski, Izabela Naydenova, Vincent Toal*	
17:45 – 18:00	**Photopumped Organic Amplifiers and Microlasers Operating in the 0.8-μm Band** *Takeyuki Kobayashi, Martin Djiango, Werner J. Blau, Toshikuni Kaino*	

16:00 – 18:00	**Nanophotonics and Nanooptics II.** *Chair: Romain Quidant*	**Hall B**
16:00 – 16:15	**Light-induced Charge Transport Through Quantum-dot and Molecular-tunnelling Nanojunctions** *B. D. Fainberg, A. Nitzan*	
16:15 – 16:30	**Structural and Optical Characterisation of Photonics Structures Prepared by Nanoimprint Technology** *D. Haško, J. Kováč, A. Šatka, M. Držík, F. Uherek, G. Hubbard, D.W.E. Allsopp*	
16:30 – 16:45	**Optically Bound Chain of Microparticles** *Pavel Zemánek, Oto Brzobohatý, Vítězslav Karásek, Tomáš Čižmár, Veneranda Garcés-Chávez, Kishan Dholakia*	
16:45 – 17:00	**Broadening of the Erbium Emission in Dielectric Nanoparticles-doped Silica-based Fibres** *W. Blanc, B. Dussardier, R. Peretti, A.M. Jurdyc, B. Jacquier, M. Foret, N. Dragomir, A. Roberts*	
17:00 – 17:15	**Polariton Mode Lasing in a Trap of Bose-condensate of Indirect Quantum-well Excitons** *Petr Kalinin, Vitaly Kocharovsky, Vladimir Kocharovsky*	
17:15 – 17:30	**Fiber Coupled Single Photon Receivers Based on Superconducting Detectors for Quantum Communications and Quantum Cryptography** *K.V. Smirmov, Yu.B.Vachtomin, R.V.Ozhegov, I.V.Pentin, E.V.Slivinskaya, A.A.Korneev, G.N.Goltsman*	
17:30 – 17:45	**Superconducting Photon Number Resolving Counter for Near Infrared Applications** *A. Korneev, A. Divochiy, F. Marsili, D. Bitauld, A. Fiore, V. Seleznev, N. Kaurova, M. Tarkhov, O. Minaeva, G. Chulkova, K. Smirnov, A. Gaggero, R. Leoni, F. Mattioli, K. Lagoudakis, M. Benkhaoul, F. Lévy, G. Goltsman*	
17:45 – 18:00	**Coherent Control and Spectroscopy of Excitonic States in Quantum Dot Structures** *L.V.Dzemiantsova, O.K.Khasanov, N.N.Rubtsova, G.A.Rusetsky*	
18:00 – 19:00	**Poster Session**	
	CdSe/CdS/ZnS core/shell Quantum Dots for White LEDs *Changyu Shen*	
	Optical Enhancement Passivation Layer CsCl for the Transparent Organic Light Emitted Diodes with Sr-Ag Transparent Cathode *Chan-Jae Lee, Duck-Kyun Choi, Dae-Gyu Moon, Jeong-In Han*	
	Enhanced Luminescence of GaN-based Light-emitting Diodes with a Localized Surface Plasmon Resonance Layer Jun-Ho Sung, Chul-Hyun Choi, Min-Woo Lee, Bo-Soon Kim, Sueng-Gol Lee, Se-Guen Park, El-Hang Lee, Beom-Hoan O, Chul-Jae Choi, Young-Ho Choi	
	New Trends in Laser Satellite Communications: Design and Limitations *J. Císař, O. Wilfert, F. Fanjul-Vélez, N. Ortega-Quijano, J. L. Arce-Diego*	

	Monte-Carlo Technique for Uncertainty Evaluation of Gauge Blocks Calibration Using Laser Interferometry *V. Álvarez-Valado, H. González-Jorge, B. V. Dorrío, F. J. Yebra, J. L. Valenci, J. Rodríguez*	
	Optical and Magneto-optical Properties of as-quenched CoFeSiB Amorphous Ribbons *O. Životský, K. Hrabovská, A. Hendrych, K. Postava, L. Klimša, J. Pištora*	
	Phase Correlation Function of Liquid Crystal–Polymer Composite *Leonid O. Dolgov, Peter P. Maksymyak, Andrei L. Negrych, Oleg V. Yaroshchuk*	
	Modelling of Laser Light Scattering by Fractal Clusters *Oleksander Maksimyak, Kateryna Nestina*	
	Optical Sensor Based on Sensitive Polymer Layer *Matthias Will, Tomas Martan, Ralf Müller, Olaf Brodersen, Gerhard J. Mohr*	
	Radiation at the Wavelength of 747 nm Generated by Flash-Lamp Pumped Pr:YAP Laser *Martin Fibrich, Helena Jelínková, Jan Šulc, Karel Nejezchleb, Václav Škoda*	
	IR Femtosecond Laser Ablation of Solid-state Materials *M. Drahokoupil, V. Hájková, J. Chalupský, L. Juha, V. Kubeček, J. Limpouch, R.Truccolo*	
	Photon Counting Detector for Space Applications Optimized for Both Gated and Non-gated Operation *Ivan Prochazka, Josef Blazej, Jan Kodet*	
	Laser Prototype System for Creating High Density Patterns on PCB *R. Barbucha, M. Kocik, J. Mizeraczyk, G. Koziol, J. Borecki*	
	Optimisations of Transfer Function in Laser Photoacoustic with Piezoelectric Detection *Mykhaylo P. Gorsky, Peter P. Maksimyak*	
	Periodic Poling of RbTiOPO4 for Second Harmonic Generation of 1.064 nm *Peter Gladkov, J.Zelinka, F. Ondracek, W. Malina, Kr. Stankov*	
	Linear and Non-linear Optical Properties of Ge-As-S Films *Igor D. Tolmachov, Alexandr V. Stronski*	
	Ultrafast Properties of Multilayer Heterostructures Based on GaAs/Al2O3 *M.V. Ermolenko, S.A. Tikhomirov, V.V. Stankevich, O.V. Buganov, S.V. Gaponenko, A.S. Shulenkov*	
	Effect of Zirconium and Roughness Surface on Third-order Nonlinear-optical Susceptibility of Zinc Oxide Thin Films *K. Bahedi, M. Addou, B. Sahraoui, M.El Jouad, Z. Essaïdi, Z. Sofiani, M. Alaoui Lamrani,T. El Habbani, N. Fellahi, S.Bayoud*	
	Properties of Er3+ and Er3+ + Yb3+ Doped GaN Layers Investigated Using the Transmittance Measurement *Václav Prajzler, Ivan Hüttel, Jarmila Špirková, Jiří Oswald, Vratislav Peřina*	

	Photonic-crystal Superradiant Laser: Effects of Homogeneous and Inhomogeneous Broadening of Active Medium *Naum Ginzburg, Ekaterina Kocharovskaya, Alexander Sergeev, Alexander Telnykh*	
	Simulation of a Two-dimensional Photonic Crystal Waveguide Using the FDTD Method *Leila Dekkiche, Rafah Naoum*	
	Enhanced Coupling Efficiency Into the Slow Light Photonic Crystal Waveguide Using Index Matching Layer *Dong-Jin Lee, Jun-Ho Sung, Chul-Hyun Choi, Min-Woo Lee, Bo-Soon Kim, Seung-Gol Lee, Se-Geun Park, El-Hang Lee, Beom-Hoan O*	
	Lens Design with Diffractive Optical Element for 350X high Zoom Ratio *Yi Chin Fang*	
	Characterization and Application of New Photopolymer Recording Media for Usage in Holography *Vít Lédl, Milan Květoň*	
	Realization of Black Silicon Layer Using Simple Plasma Fabrication Process for Application in Solar Cells *Bo-Soon Kim, Min-Woo Lee, Jun-Ho Sung, Chul-Hyun Choi, Hae-Dong Yim, Se-Geun Park, Seung-Gol Lee, Beom-Hoan O*	
	Design and Fabrication of Black Silicon Based on Porous Silicon *Hae-Dong Yim, Chul-Hyun Choi, Min-Woo Lee, Jun-Ho Sung, Bo-Soon Kim, Se-Geun Park, Seung-Gol Lee, El-Hang Lee, Beom-Hoan O*	
	Nanooptics of Locally Induced Photocurrent in Silicon Solar Cells *Pavel Škarvada, Lubomír Grmela, Ines Butwirat, Pavel Tománek*	
20:00	**Welcoming Reception**	

AUGUST 28, 2008 – Thursday

08:30 – 10:35	**Lasers for Medical Applications I.** *Chair: Helena Jelínková*	**Hall A**
08:30 – 08:50	**Invited Talk** **In Vivo Imaging of Embryonic Heart Development Using Optical Coherence Tomography** *Lars Thrane*	
08:50 – 09:05	**High-power Laser System for Production of Hyperpolarized Xenon** *Zdeněk Buchta, Ondřej Číp, Jan Rychnovský, Josef Lazar*	
09:05 – 09:20	**Diode Pumped Nd:GdVO4 Laser Tunable at 1.06 um** *V. Kubecek, M. Drahokoupil, P. Zatorsky, M. Cech, P. Hirsl*	

09:20 – 09:35	**Biocompatible Layers Fabricated Using Laser** *Miroslav Jelínek, Tomáš Kocourek, Miroslava Vrbová, David Koňařík, Jan Remsa*	**Hall A**
09:35 – 09:50	**Contrast Limiting Factors of Optical Fiber Bundles for Flexible Endoscopy** *N. Ortega-Quijano, J. L. Arce-Diego, F. Fanjul-Vélez*	
10:05 – 10:20	**Study of Polarizing Intercorrelation Function of Coherent Images of Phase-inhomogeneous Layer Anisotropy** *A.O. Angelskaya, A.G. Ushenko, Yu.A. Ushenko, A. Dubolazov, V. Istratiy*	
10:20 – 10:35	**Singular Structure of Organic Crystal Polarization Properties** *A.O. Angelskaya, A.G. Ushenko, Yu.A.Ushenko, A.G.Pridiy, M.P.Gorsky*	
08:30 – 09:35	**Solid State Lighting + LED, LD, OLED** *Chairman: Reinhart Poprawe*	**Hall B**
08:30 – 08:50	**Invited Talk** **Advanced Light Emitting Devices for Optoelectronic Applications** *Jaroslav Kováč, Ján Jakabovič*	
08:50 – 09:05	**Novel Approaches for Light Control of High Power LEDs** *L. Kuna, F. P. Wenzl, C. Sommer, E. Zinterl, J. R. Krenn, P. Hartmann, P. Pachler, M. Schweighart, S. Tasch*	
09:05 – 09:20	**Novel Solutions Towards Improved High Power White LED Light Sources** *F. P. Wenzl, C. Sommer, L. Kuna, E. Zinterl, J. R. Krenn, P. Hartmann, P. Pachler, M. Schweighart, S. Tasch*	
09:20 – 09:35	**Phosphors-conversion White Light LEDs with an Omni-directional Reflector** *Sian-Wei, Chen, Jung-Chieh, Su, Chun-Lin, Lu, Siao-Fang, Song, Jing-Hen, Chen*	
09:35 – 10:35	**Lasers and Photodetectors in Industry, Imaging and Sensors I.** *Chair: Oleg Angelsky*	
09:35 – 09:55	**Invited Talk** **Tilted Cavity Concept for the High-power Wavelength Stabilized Diode Lasers** *Leonid Ya. Karachinsky, Innokenty I. Novikov, Gerrit Fiol, Matthias Kuntz,Yuri M. Shernyakov, Nikita Yu. Gordeev, Mikhail V. Maximov, Maria B. Lifshits, Vitaly A. Shchukin, Nikolai N. Ledentsov, Sergey S. Mikhrin, Dieter Bimberg*	
09:55 – 10:15	**Invited Talk** **Evaluation of Focus Measures under Different Wavefront Aberrations for Deformable Mirror Control in Adaptive Optics System Without Wavefront Sensor** *Hyungsuck Cho, Xiaodong Tao, Deokhwa Hong*	
10:15 – 10:35	**Invited Talk** **Scattering Inverse Problems Applied to Rough Surfaces** *Roberto Li Voti*	
10:35 – 11:00	**Coffee Break**	

11:00 – 11:45	**Lasers for Medical Applications II.** *Chair: Jürgen Popp*	**Hall A**
11:00 – 11:15	**Synthesis and Characterization of Gold Nanoparticles for Enhanced Absorption and Optoacoustic Signal Generation** *Vincent Cunningham, Horacio Lamela, Andrea Steinbrük, Andrea Csaki, Wolfgang Fritzsche*	
11:15 – 11:30	**Determination of the Pathological State of Skin Samples by Optical Polarimetry Parameters** *F. Fanjul-Vélez, N. Ortega-Quijano, L. Buelta, J. L. Arce-Diego*	
11:30 – 11:45	**Analysis of Photodynamic Therapy Applied to Skin Disorders by a Topical Photosensitizer** *F. Fanjul-Vélez, O. G. Romanov, M. López-Escobar, M. A. Rodríguez-Colmenares, N. Ortega-Quijano, J. L. Arce-Diego*	
11:45 – 12:35	**Non-linear Materials, Devices and Applications I.** *Chair: Pavel Cheben*	
11:45 – 12:05	**Invited Talk** **Design and Demonstration of OCDMA Systems with Superior Scalability** *Ivan Glesk, Ivan Andonovic, Paul Prucnal*	
12:05 – 12:35	**Invited Talk** **Difference-frequency Generation of mid/far-infrared Radiation in Diode Lasers: Experimental Study and Prospects** *V.Ya.Aleshkin, A.V.Andrianov, A.A.Belyanin, A.A.Biryukov, A.A.Dubinov, A.V.Ershov, V.I.Gavrilenko, V.V.Kocharovsky, Vl.V.Kocharovsky, V.A.Kukushkin, K.V.Maremyanin, S.V.Morozov, S.M.Nekorkin, B.N.Zvonkov*	
11:00 – 12:30	**Lasers and Photodetectors in Industry, Imaging and Sensors II.** *Chair: Hyungsuck Cho*	**Hall B**
11:00 – 11:15	**Adaptive Scanning Optical Microscopy (ASOM)** *Angelika Kueng, Martin Krah, Alex Cable, Scott Barry, Benjamin Potsaid*	
11:15 – 11:30	**Performance of Microstructure and Capillary Fibers for Detection of Toluene and Ethanol in Gaseous Phase** *Vlastimil Matejec, Ondrej Podrazky, Milos Hayer, Marie Pospisilova, Daniela Berkova*	
11:30 – 11:45	**Pulsed 1.55µm all-fiber Laser Combining High Energy, Ultranarrow Linewidth and Optimal Spatial Beam Quality** *Flavien Liegeois, Yves Hernandez, Damien Kinet, Domenico Giannone, Thierry Robin, Benoît Cadier*	
11:45 – 12:00	**Optical Correlation Measurements of Rough Surface Relief** *Oleg V. Angelsky, Olexander P. Maksimyak, Peter P. Maksimyak*	
12:00 – 12:15	**A simple Fiber-optic Micro-displacement Sensor Using a Green Laser** *M. Yasin, S.W. Harun, Kusminarto, Karyono, H. Ahmad*	
12:15– 12:30	**Studies on Fabrication and Characterization of High Performance Al-doped ZnO/n-Si (111) Heterojunction Photodetector** *Ismail Raid*	

12:30 – 14:00	**Lunch**	
14:00 – 15:40	**Non-linear Materials, Devices and Applications II.** *Chair: Ivan Glesk*	**Hall A**
14:00 – 14:20	**Invited Talk** **Broadband Lasers Revolutionize High-resolution Spectroscopy** *Evgeni Sorokin, Irina T. Sorokina*	
14:20 – 14:40	**Invited Talk** **Hybrid Electro-optical Thin Film Technology** *R. Morandotti, L. Razzari, R. Helsten, M. Ferrera, P.F. Ndione, M. Gaidi, M. Chaker*	
14:40 – 14:55	**Generation of Localized Pulses from Incoherent Wave in Optical Fiber Lines Made of Concatenated Mamyshev Regenerators** *Stephane Pitois, Christophe Finot, Lionel Provost*	
14:55 – 15:10	**Soliton Self-frequency Shift in Suspended Core Fibers** *B. Kibler, C. Finot, G. Millot, J. Wojcik, M. Szpulak, W. Urbanczyk*	
15:10 – 15:25	**Intracavity Synchronously Pumped PPLN Picosecond Optical Parametric Oscillator** *Alena Zavadilová, Václav Kubeček, Petr Hiršl, Miroslav Čech, Jean-Claude Diels*	
15:25 – 15:40	**All-optical Triode with Negative Feedback Effect Induced by Semiconductor Optical Amplifier Module** *Yoshinobu Maeda*	
14:00 – 15:40	**Guided Wave Photonics I.** *Chair: Jiří Čtyroký*	**Hall B**
14:00 – 14:20	**Invited Talk** **Emerging Silicon Photonic Devices: Waveguide Gratings, Resonator Arrays and Biosensors** *Pavel Cheben, Przemek J. Bock, André Delâge, Adam Densmore, Mirosław Florjańczyk, Siegfried Janz, Boris Lamontagne, Jean Lapointe, Edith Post, Jens Schmid, Philip Waldron, Dan-Xia Xu*	
14:20 – 14:40	**Invited Talk** **Mathematical and Numerical Modelling of Optical Microcavities with Active Regions** *A.I. Nosich, E.I. Smotrova, V.O. Byelobrov, T.M. Benson, P. Sewell, J. Ctyroky*	
14:40 – 14:55	**In Situ Measurement of Humidity Induced Changes in the Refractive Index and Thickness of Polyethylene Glycol Thin Films** *B. Bilen, Y. Skarlatos, G. Aktas, M. N. Inci, T. Dispinar, M. M. Kose, A. Sanyal*	
14:55 – 15:10	**Design and Realization of a Side-polished Single-mode Fiber Optic High-sensitive Temperature Sensor** *B. Nagaraju, R. K. Varshney, B. P. Pal, A. Singh, G. Monnom, B. Dussardier*	

15:10 – 15:25	**Finite Element Modeling of Microstructured Optical Fibers: Leaky Modes, Twisted Geometries, and Spatial Kerr Solitons** *André Nicolet, Frédéric Zolla, Gilles Renversez, Yacoub Ould Agha, Fabien Drouart*	**Hall B**
15:25 – 15:40	**Modelling of Magneto Photonic Waveguide Using RCWA** *K. Postava, M. Vanwolleghem, B. Dagens, P. Beauvillain, S. Visnovsky, J.-M. Lourtioz*	
15:40 – 16:00	**Coffee Break**	
16:00 – 18:00	**Non-linear Materials, Devices and Applications III.** *Chair: Vladimir V .Kocharovsky*	**Hall A**
16:00 – 16:15	**Managed Discrete Diffraction in Cascaded Induced Waveguides** *Olga V. Borovkova, Valery E. Lobanov, Anatoly P. Sukhorukov*	
16:15 – 16:30	**All-optical Beam Switching in Nonlinear Defocusing Media** *Valery E. Lobanov, Anatoly P. Sukhorukov*	
16:30 – 16:45	**High Energy, Short Pulse Generation in the Near-IR Using BIBO** *Masood Ghotbi, Marcus Beutler, Valentin Petrov, Frank Noack*	
16:45 – 17:00	**Methods and Techniques of Ultrashort Light Pulse Complete Characterization** *Vidimantas Kabelka*	
17:00 – 17:15	**Effect of Symmetric Light Beam Splitting in Sillenite Crystals** *E.Yu. Ageyev, R.V. Litvinov, N.D. Hatkov*	
17:15 – 17:30	**Lateral Confinement in Horizontal SOI Slot Waveguide Structures** *R. Hainberger, P. Müllner, M. Wellenzohn*	
17:30 – 17:45	**Dynamics of Layer Crystal Light Absorption and the Formation of Optical Distability** *Claudia Yu. Zenkova*	
17:45 – 18:00	**Characteristics of Nonlinear Integrated Optical Waveguide Sensors** *Sofyan A. Taya, Mazen M. Abadla, Mohammed M. Shabat*	
16:00 – 17:00	**Guided Wave Photonics II.** *Chair: Alexander J. Nosich*	**Hall B**
16:00 – 16:15	**Estimation of Energy Transfer Parameters in Thulium- and Ytterbium-doped Silica Fibers** *Pavel Peterka, Wilfried Blanc, Bernard Dussardier, Gérard Monnom, David Simpson, Greg Baxter*	
16:15 – 16:30	**Multi-layer Cladding Large-mode-area Silica Optical Fiber Fabricated by MCVD** *S. Trzesien, M. Ude, V. Rastogi, A. Kumar, B. Dussardier, G. Monnom*	
16:30 – 16:45	**Fully Characterization of Integrated Optical Resonators by Phase-sensitive Time-domain Interferometry** *Antonio Canciamilla, Francesco Morichetti, Andrea Melloni*	

16:45 – 17:00	**Guided to Radiation Modes Interactions in Optical Waveguides: Revised Analytical Approach** *Libor Kotačka, Tomáš Běhounek*	Hall B
17:00 – 17:55	**Design, Simulation and Modelization of Photonic Devices I.** *Chair: Mario Bertolotti*	
17:00 – 17:20	**Invited Talk** **Applications of Dynamically Controlled Bragg Gratings** *Theo Tschudi, Juergen Petter, Viktor Petrov, Poonam Arora*	
17:20 – 17:40	**Invited Talk** **Nonequilibrium Many Body Modelling of Intersubband Transport and Optics** *Mauro F. Pereira*	
17:40 – 17:55	**ARCWA as a Tool for Rigorous Modeling of Photonic Structures** *Pavel Kwiecien, Ivan Richter*	
18:00 – 19:00	**Poster Session**	
	Photodynamic Detection (PDD) in Visualisation of Cutaneous and Oral Mucosa Premalignant and Malignant Lesions - Two Clinical Cases *Kamil Jurczyszyn, Piotr Ziółkowski, Beata Osiecka, Hanna Gerber, Magdalena Dziedzic*	
	Lasers for Lithotripsy *Petr Koranda, Michal Němec, Helena Jelínková, Jan Pokorný, Oto Kőhler, Pavel Drlík*	
	Mueller-matrices Polarization Selection of Two-dimensional Birefringence Images *A.G.Ushenko, Yu.A. Ushenko, M.P.Gorsky, A.G.Pridiy, A.I.Dubolazov, V.I.Istratyy*	
	Correlation Structure of Mueller Matrices of Organic Crystals *A.G. Ushenko, Yu. A.Ushenko, A.I.Dubolazov, V.I.Istratyy*	
	The stochastization of backscattered laser radiation by whole blood during thrombus formation process *M.S.Gavrylyak, P.P. Maksimyak*	
	A Sequential Compounding Scheme for Significant Reduction of Speckle Noise for Optical Coherence Tomography Imaging in Dermatology *Thomas Martini Jørgensen, Lars Thrane*	
	Ceramic Bracket Debonding by Laser Radiation *Helena Jelínková, Petr Koranda, Michal Němec, Jan Šulc, Tatjana Dostalová, Jaroslav Racek*	
	The Hybrid Photonic Planar Integrated Receiver with the Polymer Optical Waveguides *K. Busek, Vaclav Prajzler, J.A.Arciniega*	
	Apodized and Chirped Fiber Bragg Gratings for Optical Communication Systems: Influence of Grating Profile on Spectral Reflectance *E. Gemzický, J. Müllerová*	
	Spectral and Spatial Characteristics of Pulsed Dye Laser Operated with an Intracavity Phase Step *Viktor Peet*	

	Design and Simulation of Fiber Bragg Gratings with 760 nm Central Wavelength *Břetislav Mikel, Radek Helán, Ondřej Číp*	
	Tapered Optical Fibers for Sensing *Tomáš Martan, Jiří Kaňka, Ivan Kašík, Vlastimil Matejec*	
	Fabrication of AWG Demultiplexer Using Silicon Mold *Chul-Hyun Choi, Min Woo Lee, Jun-Ho Sung, Bo-Soon Kim, Seung-Gol Lee, Se-Geun Park, El-Hang Lee, Beom-Hoan O*	
	Design and Fabrication of a Curved Optical Reflector Structure for OPCB Applications *Min-Woo Lee, Chul-Hyun Choi, Jun-Ho Sung, Bo-Soon Kim, Hae-Dong Yim, Dong-Jin Lee, Chang-Kyeong Kong, Sung-Hoon Hong, Seung-Gol Lee, Se-Geun Park, El-Hang Lee, Beom-Hoan O*	
	Design of Photonic Crystal Fibers with Low Bending Losses *Michal Lucki, Leos Bohac, Jiri Vodrazka*	
	Electromagnetic Waves and Ballistic Electrons in Nanostructures *Michal Horák*	
	A Robust Full-vectorial Mode Solver for Design of Metallised Tapers *Petr Tobiška, Jiří Čtyroký*	
	Photovoltaic Detector Based on Type II p-InAs/AlSb/InAsSb/AlSb/p-GaSb Heterostructures with a Single Quantum Well for Mid-infrared Spectral Range *M.P.Mikhailova, I.A.Andreev, K.D.Moiseev, N.D.Stoyanov, Yu.P.Yakovlev, E.Hulicius, A.Hospodkova, J.Pangrac, K.Melichar, T.Simecek*	
	Design and Construction of a VHGT-attached WDM–type Triplex Transceiver Module Using Polymer PLC Hybrid Integration Technology *Vitezslav Jerabek, Ivan Huttel, Vaclav Prajzler, Karel Bsšek, J.A.Arciniega*	
	Self-writing of Polymeric Optical Microelements by UV-curing *Mari I. Fokina, Igor Y. Denisyuk*	
	The Iterative Detection Network Suppression of the Defocusing, Thermal Noise and Readout Noise in Black & White Pictures Shot by a Camera with CCD/CMOS Sensor *Daniel Kekrt, Miloš Klíma*	
	3D KLT Compression Algorithm for Camera Security Systems *Lukáš Fritsch, Petr Páta*	
	PSF Model of Wide-field optical System for Restoration of Space (In)Variant astronomical Image Data *M. Rerabek, P. Páta*	
	Dark Spatial Photovoltaic Solitons and Soliton-induced Waveguide Elements in Ion-implanted Planar Lithium Niobate Waveguides *Vitaly Kruglov, Vladimir Shandarov, Yang Tan, Feng Chen, Christian Rueter, Detlef Kip*	

	Tunability of ytterbium fiber laser at its short-wavelength emission edge *Pavel Peterka, Václav Kubeček, Tadeáš Sedláček*	
	Lasing Modes of Infinite Periodic Chain of Quantum Wires *Volodymyr O. Byelobrov, Alexander I. Nosich*	
	Optimization of Pump Wavelength for Enhancing SC Spectral Broadening in Silica Fibers under CW-excitation *L. Abrardi, S. Martin-Lopez, A. Carrasco-Sanz, F. Rodriguez-Barrios, P. Corredera, M.L. Hernanz, M. Gonzalez-Herraez*	
	Double-clad Planar Waveguide Nd:YAG Laser *Michal Jelínek, Václav Kubeček, Helena Jelínková, Petr Hříbek*	
	Acrylic Filled Polymers with High Nanoparticles Concentration – Synthesis, Optical and Rheological Proprieties *J. Borovkova, I. Denisyuk*	

AUGUST 29, 2008 – Friday

09:00 – 09:30	**Non-linear Materials, Devices and Applications IV.** *Chair: Evgeni Sokolovsky*	**Hall A**
09:00 – 09:15	**Photoluminescence Characteristics of KSrPO4:Eu2+, Mn2+ Phosphor for Phosphor-conversion White LEDs** *Junho Jeong, Ho-Sueb Lee, Eunjin Cho, M. Jayasimhadri, Kiwan Jang, Soung-Soo Yi, Jung Hyun Jeong*	
09:15 – 09:30	**Surface Roughness Measurement of Metals Using Optical System** *Fikret Hacizade, Ersin Kayahan, Hasan Oktem, Humbat Nasibov*	
09:30 – 10:30	**Photonic Crystals and Photonic Bandgap Structures I.** *Chair: Mauro Pereira*	
09:30 – 09:45	**Photonic Crystal Properties of Opal-hematite and Opal-magnetite Films** *S. A. Grudinkin, S. F. Kaplan, N. F. Kartenko, D. A. Kurdyukov, V. G. Golubev*	
09:45 – 10:00	**Spectral-domain Interferometric Technique Used to Measure Group Index Dispersion of Holey Fibers** *Petr Hlubina, Dalibor Ciprian, Radek Chlebus*	
10:00 – 10:15	**Linear and Nonlinear Light Localization Within Optically Induced Photonic Superlattices in Lithium Niobate** *Ksenia Shandarova, Vladimir Shandarov, Eugene Smirnov, Yang Tan, Feng Chen, Christian Rueter, Detlef Kip*	
10:15 – 10:30	**The Properties of the Natural Modes and Natural Resonances in Dispersive Stratified N-layer Media** *W. Broer, Bernhard J. Hoenders*	

09:00 – 10:30	**Design, Simulation and Modelization of Photonic Devices II.** *Chair: Theo Tschudi*	**Hall B**
09:00 – 09:15	**Phase Sensitive Optical Switching in Semiconductor Microresonators** *R. Kheramand, F. Aghaiefar*	
09:15 – 09:30	**Fast Gain-transient Recovery of Cascaded EDFAs in WDM Networks Using a Disturbance Observer with a PID Controller** *Seoyong Shin, Sungchul Kim, Sungho Song*	
09:30 – 09:45	**Pixel Shift Selectivity of the Collinear Holographic Storage System** *Ye-Wei Yu, Chih-Yuan Cheng, Shu-Ching Hsieh, Tun-Chien Teng, Ching-Cherng Sun*	
09:45 – 10:00	**Design of X-Ray Waveguides for the Single-mode Propagation** *Jaeho Choi, Youngsung Park, Junghwan Kim*	
10:00 – 10:15	**Electrostatic Traps of Indirect Excitons in Coupled GaN Quantum Wells** *A. Asgari, S. Safa*	
10:15 – 10:30	**Electrical Modeling of Single Defect in Photonic Crystal Waveguide** *Preeti Patil, Raghunath K. Shevgaonkar*	
10:30 – 11:00	**Coffee Break**	
11:00 – 12:15	**Photonic Crystals and Photonic Bandgap Structures II.** *Chair: Leonid Ya. Karachinsky*	**Hall A**
11:00 – 11:15	**A 2D Honeycomb Photonic Crystal under Applied Magnetic Fields** *Carlos Alberto Duque, Nelson Porras-Montenegro, Solange Bessa Cavalcanti, Luiz Eduardo Oliveira*	
11:15 – 11:30	**Band-edge States of the Zeroth-order Gap in Quasi-periodic Photonic Superlattices** *Alexys Bruno-Alfonso, Ernesto Reyes-Gómez, Solange Bessa Cavalcanti, Luiz Eduardo Oliveira*	
11:30 – 11:45	**Polarization-independent Linear Waveguiding in 2-Dimensional Annular Photonic Crystals** *Ahmet Cicek, Bulent Ulug*	
11:45 – 12:00	**Frantz-Keldysh's Effect in 2D Photonic Macroporous Silicon Structures** *Lyudmila A. Karachevtseva, Vitaliy I. Ivanov, Olena J. Stronska*	
12:00 – 12:15	**Tunable Surface Modes in One-dimensional Photonic Crystals** *A. Soltani-Vala B. Rezaei, M. Kalafi*	
11:00 – 11:45	**Design, Simulation and Modelization of Photonic Devices III.** *Chair: Bernhard J. Hoenders*	**Hall B**
11:00 – 11:15	**Considerations on Cloaking in Geometrical Optics Treatment** *M. Bertolotti, A. Mandatori, A. Benedetti, C. Sibilia*	

11:15 – 11:30	**Light Scattering Properties of Random Media with a Structure of Laser Speckle** *Takashi Okamoto, Masaki Miyamoto, Sou Tanaka*	**Hall B**
11:30 – 11:45	**Research of Built-in-type High Precision Angle Encoder: Emulation and Experiment** *Valery P. Kiryanov, Alexey V. Kiryanov, Ilya F. Klistorin*	
12:00 – 12:15	**SPIE Best Student Award** **Closing**	**Hall A**
12:15 – 14:00	**Lunch**	