

PROGRAM AND SCHEDULE OF EVENTS

September 3, Monday	
08.30-09.30	Registration
09.30-09.40	Opening Ceremony
	PLENARY SESSION I. Chair: A. Zheltikov
09.40-10.20	Plenary lecture 1 Nanostructured solids as new photonic media. P.K. Kashkarov, <i>Russia</i>
10.20-10.40	Coffee break
	ORAL SESSION 1: Nanophotonics I . Chairs: V. Timoshenko, V. Veiko
10.40-11.05	Photonic-crystal fibers in ultrafast science and optical technologies (<i>invited</i>). A.M. Zheltikov
11.05-11.30	Giant second- and third-order hyper-Rayleigh scattering and local plasmon effects in metal nanoparticles (<i>invited</i>). O.A. Aktsipetrov, T.V. Murzina, E.M. Kim
11.30-11.55	Morphology-induced changes of the nonlinear optical properties of Au nano-island films (<i>invited</i>). S. Couris, K. Iliopoulos, A. Vaskevich, I. Rubinstein
11.55-12.20	Solid nanofilms by ablation of liquids with ultrashort pulses (<i>invited</i>). T. Csákó, O. Berkesi, I. Kovács, G. Radnóczy, T. Szörényi
12.20-12.35	Manufacturing of periodical nanostructures by fs-laser direct writing . J. Gottmann, D. Wortmann, R. Wagner
12.35-12.50	Microscopic imaging of nanoparticles motion induced by laser radiation. I.V. Fedosov, I.S. Nefedov, B.N. Khlebtsov, V.V. Tuchin
12.50-14.00	Lunch
	ORAL SESSION 2: Biophotonics I . Chairs: A. Priezhev, Q. Luo
14.00-14.25	Biophotonics and <i>in vivo</i> cytometry (<i>invited</i>). V.V. Tuchin, E.I. Galanzha, V.P. Zharov
14.25-14.50	The inverse adding-doubling method in practice (<i>invited</i>). S. Prahl
14.50-15.05	Light-assisted treatment of acne. E.A. Genina, V.N. Sherstneva, G.V. Simonenko, A.N. Bashkatov, I.V. Yaroslavsky, G.B. Altshuler, V.V. Tuchin
15.05-15.20	DOE spectroscopy of biomaterial surface. V. Vetterl, J. Vaněk, L. Fojt, S. Hasoň, L. Strašák, S. Bartáková, K. Myller, R. Silvennoinen
15.20-15.35	Application of light absorbing and magnetic nanoparticles in phototherapy. A.A. Strattonnikov, V.B. Loschenov, A.V. Ryabova, S. Y. Vasilchenko, T.A. Badul, V.P. Pashinin, T.V. Kononenko, A.Ye. Yermakov, V.I. Konov
15.35-15.55	Coffee break
	ORAL SESSION 3: Nanophotonics II . Chairs: V. Pustovoy, S. Couris
15.55-16.20	New nanotube-based non-linear optical media for generation of sub-picosecond pulses in solid state lasers (<i>invited</i>). E.D. Obraztsova, A.V. Tausenev, A.S. Lobach, A.I. Chernov, V.I. Konov, P.G. Kryukov, E.M. Dianov
16.20-16.45	Optical properties of silver and gold nano-alloy prepared by microwave method (<i>invited</i>). M.A. Mahmoud
16.45-17.10	Photosensitizing of singlet oxygen generation by silicon nanocrystals: from understanding to biomedical studies (<i>invited</i>). V.Yu. Timoshenko
17.10-17.25	Silicon surface treatment by femtosecond laser pulses of infrared region. S.V. Zaboltnoy, L.A. Golovan, M.A. Lastovkina, A.A. Ezhov, G.D. Shandybina, V.Yu. Timoshenko, P.K. Kashkarov
17.25-17.40	Calculation of electronic structure of functionalized carbon nanomaterials. A.V. Osadchy, E.D. Obraztsova
19.00-22.00	Get-together party

September 4, Tuesday		
	PLENARY SESSION II. Chair: V. Tuchin	
09.00-09.40	Plenary lecture 2 Laser ablation with ultrashort laser pulses. P. Balling, <i>Denmark</i>	
09.40-10.20	Plenary lecture 3 Monitoring the prefrontal cortex activity with near-infrared imager. Q. Luo, <i>China</i>	
10.20-10.40	Coffee break	
	ORAL SESSION 4A: Biophotonics II. Chairs: I. Meglinski, S. Prahl	ORAL SESSION 4B: Laser-matter interaction I. Chairs: V. Morozov, R. Silvennoinen
10.40-11.05	Multiphoton tomography in medicine using femtosecond lasers (<i>invited</i>). <u>K. König</u> , I. Riemann, F. Stracke, A. Uchugonova, R. Bückle, R. LeHarzic, K. Schenke-Layland, M. Kaatz, P. Elsner	Physical aspects of glass–ceramic structure modification under laser action (<i>invited</i>). <u>V. Veiko</u> , E. Yakovlev
11.05-11.30	Two photon activated laser processing and applications in photonics and biomedicine (<i>invited</i>). B.N. Chichkov	Mechanisms of laser pulse-induced formation of nano- and microstructures on the surface of semiconductors (Ge, Cd, Te, Si) (<i>invited</i>). V.I. Emelianov
11.30-11.55	Polarized light probes of multiple scattering anisotropic media: application to morphological analysis of fibrous tissues (<i>invited</i>). <u>D.A. Zimnyakov</u> , Yu.P. Sinichkin	Analysis of the diffuse light and photoacoustic signal generation in nanoparticles (<i>invited</i>). <u>H. Lamela</u> , V. Cunningham, P. Pedreira, D.C. Gallego, P. Acedo, W. Fritzsche, A. Csaki, G. Festag, A. Steinbrück
11.55-12.10	New efficient near-IR photosensitizer based on bacteriochlorin p N-methoxycycloimide oxyme methyl ester. <u>I.G. Meerovich</u> , M. A. Grin, A.G. Tsiprovskij, G.A. Meerovich, N.A. Oborotova, V.B. Loschenov, A.Yu. Baryshnikov, A.F. Mironov	Laser-micro-drilling with nanoseconds – parametrical influences and results . <u>R. Witte</u> , R. Liebers, T. Moser, R. Holtz
12.10-12.25	Multispectral imaging of oxygen saturation. <u>T.A. Savelieva</u> , A.A. Stratonnikov, V.B. Loschenov	Key features and elements for laser ignition of engines. H. Kofler, J. Tauer, K. Iskra, G. Tartar, H. Ranner, <u>E. Wintner</u>
12.25-12.40	The videofluorescent device for the diagnostics of a cancer of a human reproductive system. <u>N.N. Brysin</u> , K.G. Linkov, A.A. Stratonnikov, T.A. Savelieva, V.B. Loschenov	Productive and precise microsecond-pulsed laser ablative processing of CVD diamond. V.I. Konov, <u>M.N. Siniavsky</u> , V.P. Pashinin, V.V. Kononenko, V.G. Ralchenko
12.40-12.55	Electro(pH)-induced incoherent second-harmonic generation in protein solutions – remote pH-sensor in biostructures. <u>E.O. Akstipetrova</u> , R.V. Kapra, T.V. Murzina	Laser-induced surface damage threshold and plasma investigations during femtosecond laser ablation of fused silica. <u>E. Axente</u> , S. Noël, J. Hermann, M. Sentis, I.N. Mihailescu
12.55-14.00	Lunch	
	ORAL SESSION 5A: Biophotonics III. Chairs: K. König, J. Lademann	ORAL SESSION 5B: Non-linear optics. Chairs: V. Emelianov, V. Zhdanov
14.00-14.25	Computational modeling of polarized light propagation within biological tissues (<i>invited</i>). I.V. Meglinski	Self-action and interaction of elliptically polarized light beams and pulses in the medium with frequency dispersion and spatial dispersion of cubic nonlinearity (<i>invited</i>). <u>V.A. Makarov</u> , I.A. Perezhogin
14.25-14.50	Methods of image reconstruction and postprocessing for fluorescence molecular tomography (<i>invited</i>). <u>O.V. Kravtsenyuk</u> , J. Ripoll, A.B. Kononov, V.V. Vlasov, V.V. Lyubimov	Catenanes and rotaxanes as new class of nanomotors for nonlinear optical applications (<i>invited</i>). R. Czaplicki, Z. Essaïdi, O. Krupka, G. Boudebs, F. Kajzar, I. Rau, J.B. Canovas, D.A. Leigh, <u>B. Sahraoui</u>

14.50-15.05	Monte Carlo study of skin optical clearing to enhance light penetration in the tissue: implications for photodynamic therapy of acne vulgaris. <u>A.N. Bashkatov</u> , E.A. Genina, V.V. Tuchin, G.B. Altshuler, I.V. Yaroslavsky	New applications of three-wave interactions in discrete nonlinear optics. <u>A.P. Sukhorukov</u> , A. Satarin, A.K. Sukhorukova, V.E. Lobanov
15.05-15.20	Effective phase function of light scattered at small angles by polydisperse particulate media. <u>I. Turcu</u>	Four-wave parametric interaction in filament. <u>R.V. Volkov</u> , D.V. Khakhulin, A.B. Savel'ev
15.20-15.35	Integrated Young interferometer based on low index contrast polymer. <u>S. Uusitalo</u> , M.Känsäkoski, S. Aikio, A.H.O. Kärkkäinen, M. Hannu-Kuure, H. Kopola	Optical orientation of dipolar centers in Bi ₁₂ SiO ₂₀ crystal grown in an oxygen-free atmosphere. <u>A.I. Grachev</u> , E. Nippolainen, A.A. Kamshilin
15.50-16.10	Coffee break	
	ORAL SESSION 6A: Photoacoustic and ultrasonic techniques. Chairs: H. Lamela, T. Löfqvist	ORAL SESSION 6B: Laser imaging and measurement techniques. Chairs: D. Zimnyakov, S. Donati
16.10-16.35	Laser photoacoustic spectroscopy: principles, instrumentation and characterization (<i>invited</i>). <u>D.C. Dumitras</u> , D.C. Dutu, C. Matei, A.M. Magureanu, M. Petrus, C. Popa	Spectral filtering of optical images in ultraviolet, visible and infrared light (<i>invited</i>). V.B. Voloshinov
16.35-17.00	Laser-ultrasonic measurement of residual stress in metals (<i>invited</i>). <u>I.M. Pelivanov</u> , A.Yu. Ivochkin, A.A. Karabutov, A.Yu.Devichensky, A.M. Lomonosov, M.L. Lyamshev, I.A. Scherbakov, N.S. Merkulova, T.O. Ivanova, U.M. Rohadgi, M. Subudhi	Image processing of real-world three-dimensional objects sensed with digital holography (<i>invited</i>). C.P. McElhinney, B.M. Hennelly, <u>T.J. Naughton</u>
17.00-17.15	Material porosity evaluation with laser ultrasonic technique. <u>I.M. Pelivanov</u> , A.A. Karabutov, N.B. Podymova	Demodulation of fiber Bragg grating wavelength shifts by optical feedback interferometry. <u>H.C. Seat</u> , M. Suleiman, T. Bosch
17.15-17.30	Cantilever-based photoacoustic spectroscopy using tunable diode lasers. <u>J. Kauppinen</u> , V. Koskinen, T. Kuusela	The detection of knots in wood materials using the tracheid effect. <u>I.P. Jolma</u> , A.J. Mäkynen
17.30-17.45	Investigation of the photoacoustic signal dependence on laser power. <u>J. Niemi</u> , P. Gren, T. Löfqvist	Mitigation of the backreflected disturbances in diode lasers taking advantage of the self-mixing crossover. S. Donati, <u>E. Randone</u>
17.45-18.00	Pulsed laser photoacoustics in monitoring aqueous suspensions of process controlling. <u>Z. Zhao</u> , M. Törmänen, R. Myllylä	Optical measurement technique for print quality evaluation. <u>M. Juuti</u> , K.-E. Peiponen
18.00-20.00	POSTER SESSION 1: Biophotonics Chair: M. Wang POSTER SESSION 2: Nanophotonics	

September 6, Thursday	
	PLENARY SESSION III. Chair: T. Jääskeläinen
09.00-09.40	Plenary lecture 4 Coupling in semiconductor lasers and applications to self-mixing measurements and chaotic cryptography. S. Donati, <i>Italy</i>
09.40-10.20	Plenary lecture 5 Optical systems for shaping laser light. F. Wyrowski, <i>Germany</i>
10.20-10.40	Coffee break
	ORAL SESSION 7: Lasers and laser systems. Chairs: K.-E. Peiponen, D. Dumitras
10.40-11.05	Subnanometer characterization of large-aperture optical components using broad-band interferometry (<i>invited</i>). A.M. Sergeev, E.A. Khazanov, I.E. Kozhevator
11.05-11.30	Diode-Pumped High-Peak-Power Picosecond Laser. Design and Applications (<i>invited</i>). V. Morozov, A.N. Olenin, V.G. Tunkin, D.V. Yakovlev
11.30-11.55	Advanced diode pumped alkali lasers (<i>invited</i>). B.V. Zhdanov, R. J. Knize
11.55-12.10	Kerr-lens mode-locked diode-pumped Yb:YAG laser. S. Uemura, K. Torizuka
12.10-12.25	Femtosecond lasers - potential tools for manufacturing high-frequency negative refractive materials. R. Dabu, M. Zamfirescu, M. Dumitru, I. Anghel
12.25-12.40	10 kHz 54 W Ti:sapphire regenerative amplifier for laser-plasma X-ray source. I. Matsushima, H. Yashiro, T. Tomie
12.40-14.00	Lunch
	ORAL SESSION 8: Biophotonics IV. Chairs: A. Strattonnikov, Z. Zhao
	ORAL SESSION 9: Imaging techniques. Chairs: V. Voloshinov, T. Bosch
14.00-14.25	Optical holography in picosecond regime on thin films of functionalised DNA (<i>invited</i>). O. Krupka, R. Czaplicki, F. Kajzar, J. G. Grote, B. Sahraoui
	Application of optical coherence tomography for the <i>in vivo</i> determination of changes in the hair structure during consumption of drugs and narcotics (<i>invited</i>). J. Lademann, H. Richter, J. Tuzikova, A. Teichmann, N. Gladkova, V. Gelikonov, G. Gelikonov, W. Sterry, U. Blume-Petavi
14.25-14.50	Optical picoscopes - new tools for biosensing and nanotechnology (<i>invited</i>). P. Nikitin
	Kramers-Kronig relations revisited (<i>invited</i>). K.-E. Peiponen
14.50-15.05	Specialized apparatus for photodynamic therapy of eye pathologies and its control. M.V. Budzinskaya, S.A. Shevchik, G.A. Meerovich, V.B. Loschenov, S.G. Kuzmin, G.N. Vorozhnev
	A camera for narrow and deep welding groove. M.S. Vehmanen, M. Korhonen, A.J. Mäkynen
15.05-15.20	Bioheating control system for stationary hyperthermia. S.A. Shevchik, G.V. Zhukov, I.N. Golovanov, K.G. Linkov, V.V. Barun, B.Y. Kogan, V.B. Loschenov, A.P. Ivanov
	Thickness measurement using image sharpness-based range sensing. S. Tervonen, A. Mäkynen
15.20-15.35	Diffusing fiber tips for photodynamic therapy. V.V. Volkov, V.B. Loschenov, V.V. Kononenko
	Dynamic-speckle profilometer for measurements of coating thickness. A. Kamshilin, D. Semenov, E. Nippolainen, S. Miridonov
15.35-15.50	Novel laser technologies for human skin <i>in vivo</i> assessment. J. Spigulis, A. Lihachev, L. Gailite, R. Erts
	Thickness measurement of thin wood material by differential laser triangulation method. J.M. Hattuniemi, A.J. Mäkynen
15.50-16.10	Coffee break
16.10-18.10	POSTER SESSION 3: Laser imaging, measurements and interferometry Chair: M. Juuti POSTER SESSION 4: Laser-matter interaction and nonlinear processes
19.00-22.00	Banquet

September 7, Friday	
	PLENARY SESSION IV. Chair: S. Garnov
09.00-09.40	Plenary lecture 6 Attosecond physics. F. Krausz, <i>Germany</i>
09.40-10.20	Plenary lecture 7 Printable optics and optoelectronics. H. Kopola, M. Tuomikoski, T. Kololuoma, J. Hast, M. Välimäki, P. Kopola, O.-H. Huttunen, A. Maaninen, <i>Finland</i>
10.20-10.40	Coffee break
	ORAL SESSION 10: Lasers and laser-matter interaction II. Chairs: F. Wyrowski, T. Szörenyi
10.40-11.05	High-average power diode pumped solid-state lasers based on optically dense active media (<i>invited</i>). I.A. Shcherbakov, V.B. Tsvetkov
11.05-11.30	Femtosecond laser microplasma: experimental methods of space-time-resolved diagnostics (<i>invited</i>). S. Garnov, V.V. Bukin, A.A. Maljutin, V.V. Strelkov
11.30-11.45	LIBS-study of thallium films formation on the substrate. E.L. Surmenko, T.N. Sokolova, O.N. Scherbinina
11.45-12.00	Investigation of the optical-physical processes occurring in the active media of high-power electric-discharge lasers by holographic interferometry methods. R.F. Kurunov
12.00-12.15	Diode pumped ridge waveguide laser by pulsed laser deposition and ultrafast laser microstructuring. J. Gottmann, D. Wortmann, L. Starovoytova, D. Ganser, I. Vasilief, L. Moiseev
12.15-12.30	Closing ceremony
12.30-14.00	Lunch

POSTER SESSIONS

POSTER SESSION 1. Biophotonics	
1.	The mechanical effect of non-destructive IR laser irradiation of collagenous tissue N.Yu. Ignatieva, O.L. Zakharkina
2.	Use of Pulsed UV Laser light for inactivation of <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> suspended in non-alcoholic beer M. Karimi Azar Daryany, R. Massudi, M. Hosseini
3.	The simulation of photons propagation into the tissue with non trivial geometry I.V. Krasnikov, A.Yu. Seteikin <i>Cancelled</i>
4.	3D Simulation of plant and living tissue superficial lesions I.A. Bratchenko, A.R. Sindyaeva, V.P. Zakharov
5.	Estimation cobalt phthalocyanine nanoparticle catalytic properties <i>in vitro</i> and <i>in vivo</i> , depending on the polymer coating and nanoparticle size A.V. Ryabova, E.N. Barishpoltseva, S.U. Vasilchenko, O.L. Kaliya, V.B. Loschenov
6.	Subcutaneous human blood vessels visualization by means of coherence-gated technique S.G. Proskurin, M. Bonesi, I.V. Meglinski
7.	Diamond nanoparticles as bio-label using Raman and luminescent detection Elena Perevedentseva, Chih-Yuan Cheng, Pei-Hua Chung, Kuang - Kai Liu, Chia - Ching Chang, J.-I Chao, C.-L. Cheng
8.	Double integrating sphere system for optical parameter determination of industrial suspensions V.T.J. Keränen, A.J. Mäkynen
9.	Experimental investigation of kinetics spectral characteristics of a plant tissue V.P. Zakharov, E.V. Vorobjova, S.P. Kotova, P.E. Timchenko
10.	Physical methods for studying the effect of copper and cadmium ions on proteins solutions A.V. Boiko, G.P. Petrova, Y.M. Petrushevich, D.I. Ten, I.A. Perfil'eva, S. S. Koshel, D.V. Matyushenko
11.	Laser photoionization method detecting the single atoms and products of nuclear reactions A.V. Glushkov, O.Yu. Khetselius
12.	Dynamic properties of collagen molecules in water and salt solution I.A. Perfil'eva, G.P. Petrova, Y.M. Petrushevich, A.V. Boiko
13.	Laser - tissue interactions: the specific response of nucleus pulposus matrix I.V. Andreeva, A.E. Guller, N.Y. Ignatieva, O.L. Zakharkina

14.	Time gating applied to the problem of glucose sensing with ultrashort pulses <u>A.V. Bykov</u> , M.Yu. Kirillin A.V. Priezzhev, and R.A. Myllylä
15.	Laser, spectral, and video equipment for photodynamic therapy and fluorescent diagnostics <u>K.G. Linkov</u> , A.A. Stratonnikov, V.B. Loschenov
16.	Red blood cells in laser beam field: calculations of light scattering <u>A.E. Lugovtsov</u> , A.V. Priezzhev, S.Yu. Nikitin
17.	Mechanism of therapeutic effects of low intensity laser irradiation S.V. Yakovleva
18.	Changes of septal cartilage polarization properties under non-ablative laser irradiation <u>O.L. Zakharkina</u> , N.Yu. Ignatieva, V.A. Kamensky, A.E. Guller, A.B. Shekhter, E.N. Sobol
19.	About <i>in situ</i> functionalization of carbon nanopowder synthesized by laser-induced pyrolysis <u>L. Gavrilă-Florescu</u> , I. Sandu, I. Soare, M. Scarisoreanu, E. Popovici, I. Morjan, I. Voicu
20.	Simple model of permeation in skin pretreated by a lattice-like photothermal ablation <u>A.A. Gavrilova</u> , V.V. Tuchin, I.V. Yaroslavsky, G.B. Altshuler
21.	Two designs of optical tweezers: applications and comparison <u>A. Karmenyan</u> , S. Liu, M.T. Wei, A. Chiou
POSTER SESSION 2. Nanophotonics	
22.	Influence of vesicle size distribution on level and selectivity of accumulation of liposomal photosensitizer tiosenes in tumor <u>G.A. Meerovich</u> , I.G. Meerovich, D.G. Gurevich, S.I. Vorobyov, V.G. Pevgov, Z.S. Smirnova, N.A. Oborotova, E.A. Lukyanets, V.B. Loschenov, A.Yu. Baryshnikov
23.	Optical spectroscopy of silicon nanomaterials for biomedical and sensor applications A.I. Efimova, R.A. Abidulina, A.S. Vorontsov, Yu.V. Ryabchikov, A.V. Pavlikov, P.K. Kashkarov, V.Yu. Timoshenko
24.	Optical properties dependence on interface states of silicon nanoparticles <u>S. Korovin</u> , R. Khasanshin, V. Pustovoy, A. Vladimirov
25.	Nonlinear optical properties of nanosilicon composite materials <u>S. Korovin</u> , <u>V. Pustovoy</u>
26.	Nanocrystal silver iodide surface optical sensitization <u>S.V. Vinogradov</u> , M.A. Kononov, S.I. Valjanskii, A.G. Makarov, <u>V.V. Savranskii</u>
27.	Monte Carlo calculations of UV protecting properties of emulsions containing TiO ₂ , Si and SiO ₂ nanoparticles <u>A.P. Popov</u> , A.V. Priezzhev, J. Lademann, R. Myllylä
POSTER SESSION 3. Laser Imaging, Measurements and Interferometry	
28.	Light-controlled corrector of optical distortions for EUV projection lithography at 13,5 nm <u>S.A. Dimakov</u> , A.A. Mak
29.	Full-field high-resolving optical coherence tomography system for evaluating paper materials E. Alarousu, I. Gurov, N. Kalinina, A. Karpets, N. Margariants, R. Myllylä, <u>T. Prikäri</u> , E. Vorobeva
30.	Monte Carlo method for simulating optical coherence tomography signal in homogeneous turbid media F. Zhang, <u>M. Kinnunen</u> , A. Popov, R. Myllylä
31.	Effect of paper porosity on OCT images: Monte Carlo study <u>M.Yu. Kirillin</u> , A.V. Priezzhev, R. Myllylä
32.	The detection of some breast specific affections by near infrared optical tomography <u>M.I. Rusu</u> , D. Savastru, S. Milcoş, S. Donţu, D. Tenciu, L. Başchir
33.	Frequency spectrum analysis of pulsed photoacoustic signals in Intralipid <u>M. Kinnunen</u> , R. Myllylä
34.	Analysis of accuracy of laser spot centroid estimation <u>R. Singh</u> , J.M. Hattuniemi, A.J. Mäkynen
35.	The method for estimation of effective optical parameters of densely-packed fibrillar media <u>L.V. Kuznetsova</u> , O.V. Ushakova, and D.A. Zimnyakov
36.	An utilization of a diffractive optical element based machine vision system in local optical inspection of compressed paper <u>A. Oksman</u> , R. Silvennoinen, K.-E. Peiponen
37.	Possibilities of using X-Ray radioscopy in thin wood inspection <u>T.H. Ervasti</u> and A.J. Mäkynen
38.	Laser photoionization method and technologies for cleaning the semiconductor materials and preparing the films of pure composition at atomic level

	<u>A.V. Glushkov</u> , A.V. Malinovskiy, S.V. Ambrosov
39.	CALAS: Carpathian Laser Strainmeter – a project and preliminary results <u>F. Garoi</u> , I. Apostol, D. Apostol, V. Damian, J. Lazar, G. Molesini, T. Papadopoulos, C. Ionescu, A. Tugui
40.	Use of time-of-flight 3D camera in volume measurement <u>A.V.H. Ollikkala</u> , A.J. Mäkynen
41.	Optical object detection in paper improved by refractive index matching and mechanical treatment <u>J. Saarela</u> , S. Heikkinen, T. Fabritius, R. Myllylä
POSTER SESSION 4. Laser-Matter Interaction and Nonlinear Processes	
42.	Picosecond laser system based on microchip oscillator seed <u>R. Dabu</u> , A. Stratan, C. Fenic, C. Blanaru
43.	Nonlinear optical properties of solutions and films of CdSe nanoparticles with ZnS shell <u>V.I. Krasovskii</u> , K.V. Zakharchenko, A.A. Chystyakov, V.A. Karavanskii, V.A. Oleinikov
44.	Theory of interaction of intense laser radiation with atoms, nuclei and femto-second laser plasma at surface. Atomic dynamics with non-rectangular laser pulses <u>A.V. Glushkov</u>
45.	Extremely short pulses interactions in nonlinear photonic crystals <u>V.E. Lobanov</u> , <u>A.P. Sukhorukov</u> , V.A. Chernykh, N.E. Senichev
46.	UV femtosecond modification of transparent solids <u>V.V. Bukin</u> , S.V. Garnov, A.A. Malyutin, D.K. Sytchev
47.	Correlation between mechanical properties of aluminum alloys and characteristics of laser-induced plasma <u>T.A. Labutin</u> , A.M. Popov, N.B. Zorov
48.	Influence of ferrite surface microstructure on laser ablation <u>A.M. Popov</u> , T.A. Labutin, N.B. Zorov
49.	Influence of active medium inhomogeneities on output radiation of fast axial flow CO ₂ laser <u>V.D. Dubrov</u> , M.G. Galushkin, <u>R.V. Grishaev</u> , V.Ya. Panchenko, Yu.N. Zavalov
50.	Intracavity frequency doubling 15W QCW diode pumped Nd:YAG laser <u>I.V. Glukhikh</u> , R.F. Kurunov, S.S. Polikarpov, S.V. Frolov
51.	Reverse saturable absorption in organic dyes <u>V.I. Krasovskii</u> , A.Yu. Gerasimenko, V.M. Podgaetskii
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