

iA-2010 Conference Programme

09/08 (Mon) 16:00-22:00					
	16:00-22:00	Registration (Room 119)			
	18:00-19:00	Old Riga City Tour			
	19:00-22:00	Welcome Party (Room 201)			
10/08 (Tue) 9:00-10:00					
Room A	8:00-12:00	Registration (Room 119)			
	Opening Ceremony				
	9:00- 10:00	Prof. A. Medvids Prof. I. Knets Prof. L. Ribickis Prof. H. Murai	General Chair Rector of Riga Technical University Vice-Rector for Research of Riga Technical University, Co-Chair Director of International Center, Shizuoka University		
	10:00-10:20	Coffee break			
10/08 (Tue) 10:20-12:10					
I Nanotechnology and nanometrology, SECTION CHAIRMEN: Tabe, Mezinskis					
Room A	10:20- 10:50	inv.	Inokawa	Shizuoka University	Single-Photon Detector Based on MOSFET Electrometer with Single-Electron Sensitivity
	10:50- 11:20	inv.	Kapon	EPFL - LAUSANNE Lausanne Suisse	Quantum Wire - Quantum Dot Assemblies formed in Pyramidal Heterostructures
	11:20- 11:40	oral	Luca	Alexandru Ioan Cuza University	A Novel Approach in Synthesizing Nanostructured Titanium Oxide Nitride Photocatalytic Films
	11:40- 12:00	oral	Ito	Shizuoka University	Analysis of Electron Spin-Spin Interaction in Coupled Quantum Well
	12:00- 12:20	oral	Jablonski	Warsaw University of Technology	A new system for real time measurement of nano- and micro particles in flowing gas. Design and calibration
I Biomedical engineering, SECTION CHAIRMEN: Berzina-Cimdina, Ogino					
Room B	10:20- 10:50	inv.	Dekhtyar	Riga Technical University	Emission of weak electrons to characterize nano objects for their biomedical applications
	10:50- 11:10	oral	Matsuda	Shizuoka University	Development of combined treatment of electro-coagulation and flocculation for various type of wastewater
	11:10- 11:30	oral	Sako	Shizuoka University	Gasification and hydrogen production from waste biomass with high pressure superheated steam
	11:30- 11:50	oral	Yamakawa	Shizuoka University	Subdural electrocorticogram measurement with a minimally-invasive procedure using an SMA-manipulated microelectrode array
	11:50- 12:10	oral	Ertz	University of Latvia	Fabrication of nanoporous AAO structures for nanodot deposition nanovolume material transport
	12:10- 12:30	oral	Popa	Alexandru Ioan Cuza University	Optical diagnosis of an atmospheric pressure plasma source used for acceleration of wound healing process
12:30- 13:30		Lunch			
10/08 (Tue) 13:30-15:20					
II Nanotechnology and nanometrology & I Plasma physics, SECTION CHAIRMEN: Dmitruk I., Knite					
Room A	13:30- 14:00	inv.	Vaitkus	Vilnius University	Defect and structure engineering - submicron technology and inverse nanotechnology for photo- and ionizing radiation detectors
	14:00- 14:30	oral	Tabe	Shizuoka University	Si-based single-dopant atom devices
	14:30- 14:50	oral	Nagatsu	Shizuoka University	Surface Functionalization of Graphene Layer-Encapsulated Magnetic Nanoparticles by Inductively Coupled Plasma
	14:50- 15:10	oral	Egbert	GE Sensing & Inspection Tech	High-resolution X-ray Computed Tomography for Materials Research - Comparison between X-ray-tube based and Synchrotron based μ CT
I Photonics, SECTION CHAIRMEN: Mimura, Rimshans					
Room B	13:30- 14:00	inv.	Grazulevicius	Kaunas University of Technology	Organic glass-forming semiconductors for optoelectronic applications
	14:00- 14:20	oral	Kuokstis	Vilnius University	Stimulated Emission of Wide-Gap Semiconductors
	14:20- 14:40	oral	Fukuda	Shizuoka University	Band bending of n-GaP(001) and p-InP(001) surfaces with and without sulfur treatments studied by photoemission and inverse photoemission spectroscopy
	14:40- 15:00	oral	Nakano	Shizuoka University	Fabrication and analysis of photocatalyst group-III nitride powder
	15:00-15:20	oral	Kanev	Shizuoka University	Laser Marking in Digital Encoding of Surfaces
15:20- 15:40		Coffee break			

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10/08 (Tue) 15:40-18:00					
III Nanotechnology & II Photonics & I Electric and electronic engineering, SECTION CHAIRMEN: Vaitkus, Ozols					
Room A	15:40- 16:10	inv.	Dmitruk I.	Kyiv National Taras Shevchenko University	Anisotropy of surface plasmon in spherical metal nanoparticles induced by femtosecond laser pulse
	16:10- 16:40	inv.	Fedorenko	V. Lashkariov Institute of Semiconductor Physics	Self-organization Process of Nanostructure Formation by Laser Radiation in Metal
	16:40- 17:00	oral	Ikeda	Shizuoka University	A Novel Refrigerator Device Using Single-Electron Pump Applicable to SOI Wafers
	17:00- 17:20	oral	Aoki	Shizuoka University	Carrier transportation properties in CdTe radiation detector for improvement of counting rate and energy resolution
	17:20- 17:40	oral	Kaupuzs	University of Liepaja	Modeling of surface structure formation after laser irradiation
	17:40-18:00	oral	Ozols	Riga Technical University	Holographic phototransformation of materials
I E-learning techniques and education materials (Special Section), SECTION CHAIRMEN: Jablonski, Okano					
Room B	15:40- 16:00	oral	Guseynov	Transport and Telecommunication Institute	On-line Monitoring of Random Stocks of Divisible Productions in Interrelated Warehouses
	16:00- 16:20	oral	Varkonyi-Koczy	Obuda University	Anytime Fuzzy Modeling
	16:20- 16:40	oral	Rimshans	University of Liepaja	A Method of Conversion of Some Coefficient Inverse Parabolic Problems to a Unified Type of Integral-Differential Equation
	16:40- 17:00	oral	Blums	Riga Technical University	The Evaluation of the Impact of the Teaching Movies on the Level of the Students' Knowledge
	17:00- 17:20	oral	Morevs	University of Liepaja	Nodal Numerical 2D Helmholtz Equation: Truncation Analysis
	17:20- 17:40	oral	Zaime	University of Liepaja	Propagator Method for Numerical Solution of Convective Fisher Equation
18:00-19:00 Old Riga city tour					
19:15-22:30 Dinner in the "LIDO" Recreation Centre (Departure from RTU at 19:15)					

11/08 (Wed) 9:00-10:30					
II Electric and electronic engineering & I Automatic control, SECTION CHAIRMEN: Varkonyi-Koczy, Kuokstis					
Room A	9:00- 9:20	oral	Hashimoto	Shizuoka University	Applications of High-precise Three-dimensional Measurement System
	9:20- 9:40	oral	Kretkowski	Shizuoka University	Color calibration method based on spectrally reproduced colors and its application to an XYZ-type digital camera
	09:40- 10:00	oral	Blums	Riga Technical University	The electrodynamic human motion energy converter with planar structure
	10:00- 10:20	oral	Joksas	EKSPLA	Advanced photonics from EKSPLA
IV Nanotechnology and nanometrology, SECTION CHAIRMEN: Ito, Fedorenko					
Room B	9:00- 9:30	inv.	Knite	Riga Technical University	Prospective polymer/nanostructured carbon composites for application in multifunctional sensors
	9:30- 9:50	oral	Moraru	Shizuoka University	Memory effects based on dopant atoms in nano-FETs
	9:50- 10:10	oral	Rakos	Budapest University of Technology and Economics	Coulomb-coupled, Protein-based Computing Arrays
	10:10- 10:30	oral	Nakamoto	Shizuoka University	Stable Emission Characteristics of Low Work Function Amorphous Carbon Coated Transfer Mold Nickel Field Emitter Arrays in Harsh Environment
10:30-10:50 Coffee break					

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11/08 (Wed) 10:50-12:40					
I Solar Cells & V Nanotechnology, SECTION CHAIRMEN: Luca, Blums					
Room A	10:50-11:20	inv.	Mellikov	Tallinn University of Technology	Solar Energy Materials Research at Tallinn University of Technology
	11:20-11:40	oral	Ulyashin	SINTEF Materials and Chemistry Department of Energy Conversion and Materials	Low-temperature Processing of Silicon Based Solar Cells
	11:40- 12:00	oral	Murakami	Shizuoka University	Nanostructural control of Pt layer on counter electrode for application to dye-sensitized solar cells
	12:00-12:20	oral	Rudko	Institute Semiconductor Physics NAS of Ukraine	Optical properties of filament-like crystals and nanowires
	12:20-12:40	oral	Ahmad	Shizuoka University	Application of Titanium Dioxide Nanorods in DSC using Spray Pyrolysis Deposition (SPD) Method
I Polymers and composites & I Ceramics and glasses, SECTION CHAIRMEN: Kokars, Grazulevicius					
Room B	10:50-11:10	oral	Okano	Osaka University	Numerical investigation of the limiting sliding condition of polyoxymethylene with various sliding geometry
	11:10-11:30	oral	Okajima	Shizuoka University	Recycling of carbon fiber reinforced plastics using subcritical water
	11:30- 11:50	oral	Svinka	Riga Technical University	Porous alumina - mullite ceramic, structure and properties
	11:50-12:10	oral	Rogachev	Gomel State University	Morphology, molecular structure and bactericidal properties of PTFE-Ag nanocomposite polymer-metal coatings
	12:10- 12:30	oral	Bartic	Shizuoka University	Optical properties of CaYAlO ₄ : Eu ³⁺ phosphors
12:40- 13:40 Lunch					
11/08 (Wed) 13:40-15:30					
III Electric and electronic engineering & II Automatic control, SECTION CHAIRMEN: Asmontas, Hashimoto					
Room A	13:40- 14:00	oral	Asmontas	Semiconductor Physics Institute	Semiconductor Structure for Microwave and Terahertz Electronics
	14:00- 14:20	oral	Stacey	Renishaw PLC	Adventures in Raman Spectroscopy- when only Raman will do
	14:20- 14:40	oral	Takeda	Shizuoka University	Random error in intensity spectrum measured with THz-TDS — No relation to the intensity fluctuation of fs-laser —
	14:40- 15:00	oral	Satoh	Shizuoka University	Investigation of Adhesion Materials for Gold Line-and-Space Surface Plasmon Antenna on SOI-MOS Photodiode
	15:00- 15:20	oral	Ono	Shizuoka University	High-efficiency SOI photodetector utilizing surface plasmon resonance in gold corrugated structure
II Biomedical engineering & I Plasma physics, SECTION CHAIRMEN: Sako, Dekhtyar					
Room B	13:40- 14:10	inv.	Pumpens	University of Latvia	Protein engineering: virus-like particles
	14:10-14:30	oral	Ogino	Shizuoka University	Low Temperature Plasma Treatment for Immobilization of Biomaterials on Polymer Surface
	14:30- 14:50	oral	Yamashita	Shizuoka University	Preparation and Evaluation of Novel Sugar Dendritic Gd-DTPA Complexes for MRI Contrast Agents and Phospha Sugars for Anti-tumour Agents
	14:50-15:10	oral	Loca	Riga Technical University	Lidocaine loaded hydroxyapatite scaffolds for bone regeneration and local drug delivery
	15:10-15:30	oral	Gulbis	Riga Technical University	Nonlinear optical susceptibility of tetragonal BaTiO ₃
15:30-15:50 Coffee break					
17:30-22:00 Latvian Ethnographic Open Air Museum & Dinner (Departure from RTU at 17:30)					

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12/08 (Th) 9:00-11:00

I Short Oral Presentations of Special Poster Session for Young Researchers (iAY), SECTION CHAIRMEN: **Murakami, Popa**

Room A	iAY	Nishioka	Shizuoka University	Thermal neutron detection by CdTe detector
	iAY	Onishi	Shizuoka University	Alarm system design based on cause-effect model
	iAY	Parkova	Riga Technical University	Integration of optical fibers into textile products
	iAY	Yamashita	Shizuoka University	Accurate and fast estimation of optical properties using optical path length and spatially resolved reflectance measurement
Room A	iAY	Suzuki	Shizuoka University	Simultaneous determination of absorption coefficients for skin and muscle tissues using spatially resolved measurement
	iAY	Latvels	University of Latvia	Investigation of energetic structure of original indandione derivatives
	iAY	Cernauskas	Kaunas University of Technology	Formation of amorphous carbon coatings at atmospheric pressure
	iAY	Dauksta	Riga Technical university	"Black silicon" formation by Nd:YAG laser radiation
	iAY	Eguchi	Kyushu Institute of Technology	Separation of Particles Employing Travelling-Wave Electrokinetic phenomena and Inclined Gravity
	iAY	Gatelyte	Vilnius University	Sol-gel derived ferrites: synthesis, characterization and application
	iAY	Grinbergs	Riga Technical University	Usage of Lignosulphonate and Polyurathane Fiber Waste Adhesives for Wood Bonding
	iAY	Hawlas	Warsaw University of Technology Faculty of Mechatronics	Teaching Assembler for Mechatronics Applications
	iAY	Hirayama	Kyushu Institute of Technology	Investigation of the mechanism of polar excitations on frog sciatic nerve by optical stimulation
	iAY	Krechetova	Riga Technical University	Medical Image Region Extraction and 3D Modeling Based on Approximating Curves
Room A	iAY	Kunakova	University of Latvia	Characterization of conductive properties of semiconductor nanowires by conductive AFM and in-situ methods
	iAY	Luizys	Kaunas University of Technology	Influence of various sublayers to a-C:H films formation on Si substrate
	iAY	Pavlova	Riga Technical University	Staphylococcus epidermidis and Pseudomonas aeruginosa adhesion intensity on a TiO2 ceramic in an in vitro study
	iAY	Rakov	National University of Kyiv	Detection of the nanostructures in ZnO thin films by using optical methods
	iAY	Sahta	Riga Technical University	Development of Microclimate Regulatory Clothe
	iAY	Sakale	Riga Technical University	Filler dispersion method effect on polyisoprene-nanostructured filler composite (PNFC) vapour sensitivity
	iAY	Salleh	Shizuoka University	Influence of Impurity Band on Seebeck Coefficient in Heavily-Doped Si
	iAY	Takagi	Shizuoka University	Performance Evaluation of a Suppressor gate built in Field Emission Array
	iAY	Deguchi	Shizuoka University	Multi-Camera Shooting Support System for Novices in a Compact Studio
	iAY	Stunda	Riga Technical University	Phase Transition During Crystallization of Na and Nb Containing Calcium Phosphate Glass-Ceramics

11:00-11:20

Coffee break

12/08 (Th) 11:20-12:30

II Short Oral Presentations of Special Poster Session for Young Researchers (iAY), SECTION CHAIRMEN: **Aoki, Ulyashin**

Room A	iAY	Koike	Shizuoka University	Design of an electrostatics lens for MicroColumn Microscopes using a multigated FEA
	iAY	Okuzumi	Shizuoka University	Process analysis of laser welding method with polybutyleneterephthalate (PBT)
	iAY	Pundyk	Kyiv National Taras Shevchenko University	Relaxation of resonant excitons in CdSe nanocrystals:simple variational calculation
	iAY	Garashchenko	Kyiv National University	Anomalous kinetics of laser-induced scattering in epoxy carbon suspensions
	iAY	Dmytruk	Institute of Physics NAS Ukraine	Clusters of ZnO produced by laser ablation

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Room A	Short Oral Presentation 5 min x 14 persons	iAY Dabolina	Riga Technical University	Investigation of Textile Materials for Laser Light Beam Scanning	
		iAY Irbe	Riga Technical University	Setting properties of brushite and hydroxyapatite compound cements	
		iAY Karaliunas	Vilnius University	Optical Characterization of MBE-grown ZnO Epilayers	
		iAY Salma I.	Riga Technical University	3D cone beam radiodensitometry in evaluation of hydroxyapatite (HA)/tissue hybrid after maxillary sinus floor elevation	
Room A		iAY Sutka	Riga Technical University	Characterization of nano sized Ni-Zn ferrite	
		iAY Zavickis	Riga Technical University	Piezoresistive rubber nanocomposites for pressure sensing	
		iAY Lopatynska	Kyiv National University	The temperature influence on the enzymatic reaction milk-protease	
		iAY Nestore	Riga Technical University	Impact Strength Modification of Polyethylene and Poly lactide Biocomposites	
Room B		iAY Szymanski	Warsaw University of Technology	Technological model of FTIR spectrometer for measuring atmospheric pollutions	
		Short Oral Presentations (iA), SECTION CHAIRMEN: Rutkuniene, Ono			
		iA Kalnacs	Institute of Physical Energetics	Separation of Fullerene Mixture by Active Coal	
		iA Kaulachs	Institute of Physical Energetics	Influence of thermal annealing on GaOHPc:PCBM/P3HT:PCBM bulk heterojunction solar cell	
Room B	Short Oral Presentation 5 min x 11 persons	iA Kropman	Tallinn University of Technology	Interaction of point defects with impurities in the Si-SiO ₂ system and its influence on the interface properties	
		iA Semchenko	Gomel State University	Synthesis of doped luminescent silica glass and films by sol-gel method	
		iA Kyslyi	Institute Semiconductor Physics Nas of Ukraine	Negative luminescence efficiency of planar semiconductor structures	
		iA Jablonski	Warsaw University of Technology	Sensory device for virtual graffiti creation	
Room B		iA Puritis	Riga Technical University	Mechanisms of strong photoluminescence of Si nanoparticles	
		iA Mizeikis	Shizuoka University	Direct laser writing of refractive index micro-structures in lithium niobate	
		iA Tatekura	Shizuoka University	Suitable truncation of room impulse response for inverse filter design of sound reproduction system	
		iA Aoki	Kyiv National Taras Shevchenko University	Laser-Induced Modification of the Surface State and Optical Properties of CdTe Crystals	
12:30-13:30 Lunch					
12/08 (Th) 13:30-14:25					
I Short Oral Presentations of Special Poster Session for Young Researchers (iAY), SECTION CHAIRMEN: Murakami, Popa					
Room A	Short Oral Presentation 5 min x 11 persons	iAY Ligowski	Warsaw University of Technology	Kelvin Probe Force Microscope measurement uncertainty	
		iAY Poplausks	University of Latvia	Dynamic force sensor for material dependent nanometer size contacts with controllable gap potential	
		iAY Sziebig	Narvik University College	Cog Framework- 3D Visualization for Mobile Robot Teleoperation	
		iAY Sziebig	Narvik University College	Telemanipulation without physical contact in the Intelligent Space	
		iAY Sziebig	Narvik University College	Multiple-Camera Optical Glyph Tracking	
		iAY Vembris	Institute of Solid State Physics	Novel amorphous red electroluminescence material based on indan-1,3-dione pyran	
		iAY Salma K.	Riga Technical University	Comparison of biphasic calcium phosphate bioceramics fabricated using different techniques	

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Room A	iAY	Zarins	Riga Technical University	Synthesis of red luminiscent non symmetric stryryl-4H-pyran-4-ylidene fragment containing derivatives for organic light-emitting diodes	
	iAY	Traskovskis	Riga Technical University	Synthesis and properties of new glassy molecular and oligomers azocompounds suitable for holographic recordings	
	iAY	Lancere	Riga Technical University	PMMA wettability caused by ultraviolet radiation	
	iAY	Tyulkin	Riga Technical University	An effect of Biointerface Surface Roughness and Electrical Potential on Stromal Stem Cells Maturation and Osteogenic Differentiation in Vitro	
12/08 (Th) 14:30-15:30					
I Poster Session & Special Poster Session for Young Researchers					
Room A	Poster	P1	Nishioka	Shizuoka University	Thermal neutron detection by CdTe detector
	Poster	P2	Onishi	Shizuoka University	Alarm system design based on cause-effect model
	Poster	P3	Parkova	Riga Technical University	Integration of optical fibers into textile products
	Poster	P4	Yamashita	Shizuoka University	Accurate and fast estimation of optical properties using optical path length and spatially resolved reflectance measurement
Room A	Poster	P5	Suzuki	Shizuoka University	Simultaneous determination of absorption coefficients for skin and muscle tissues using spatially resolved measurement
	Poster	P6	Latvels	University of Latvia	Investigation of energetic structure of original indandione derivatives
	Poster	P7	Cernauskas	Kaunas University of Technology	Formation of amorphous carbon coatings at atmospheric pressure
	Poster	P8	Eguchi	Kyushu Institute of Technology	Separation of Particles Employing Travelling-Wave Electrokinetic phenomena and Inclined Gravity
Room A	Poster	P9	Gatelyte	Vilnius University	Sol-gel derived ferrites: synthesis, characterization and application
	Poster	P10	Aoki	Kyiv National Taras Shevchenko University	Laser-Induced Modification of the Surface State and Optical Properties of CdTe Crystals
	Poster	P11	Aoki	V.E. Lashkaryov Institute of Semiconductor Physics	Laser-Induced Doping of CdTe Crystal in Different Environments
	Poster	P12	Grinbergs	Riga Technical University	Usage of Lignosulphonate and Polyurathane Fiber Waste Adhesives for Wood Bonding
Room A	Poster	P13	Hawlas	Warsaw University of Technology	Teaching Assembler for Mechatronics Applications
	Poster	P14	Hirayama	Kyushu Institute of Technology	Investigation of the mechanism of polar excitations on frog sciatic nerve by optical stimulation
	Poster	P15	Krechetova	Riga Technical University	Medical Image Region Extraction and 3D Modeling Based on Approximating Curves
	Poster	P16	Kunakova	University of Latvia	Characterization of conductive properties of semiconductor nanowires by conductive AFM and in-situ methods
Room A	Poster	P17	Luzys	Kaunas University of Technology	Influence of various sublayers to a-C:H films formation on Si substrate
	Poster	P18	Pavlova	Riga Technical University	Staphylococcus epidermidis and Pseudomonas aeruginosa adhesion intensity on a TiO2 ceramic in an in vitro study
	Poster	P19	Rakov	National University of Kyiv	Detection of the nanostructures in ZnO thin films by using optical methods
	Poster	P20	Sahra	Riga Technical University	Development of Microclimate Regulatory Cloth
Room A	Poster	P21	Sakale	Riga Technical University	Filler dispersion method effect on polyisoprene-nanostructured filler composite (PNFC) vapour sensitivity
	Poster	P22	Salleh	Shizuoka University	Influence of Impurity Band on Seebeck Coefficient in Heavily-Doped Si
	Poster	P23	Takagi	Shizuoka University	Performance Evaluation of a Suppressor gate built in Field Emission Array
	Poster	P24	Deguchi	Shizuoka University	Multi-Camera Shooting Support System for Novices in a Compact Studio
	Poster	P25	Pundyk	Kyiv National Taras Shevchenko University	Relaxation of resonant excitons in CdSe nanocrystals: simple variational calculation
	Poster	P26	Stunda	Riga Technical University	Phase Transition During Crystallization of Na and Nb Containing Calcium Phosphate Glass-Ceramics

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Room A	Poster	P27	Koike	Shizuoka University	Design of an electrostatics lens for MicroColumn Microscopes using a multigated FEA
	Poster	P28	Okuizumi	Shizuoka University	Process analysis of laser welding method with polybutyleneterephthalate (PBT)
	Poster	P29	Garashchenko	Kyiv National University	Anomalous kinetics of laser-induced scattering in epoxy carbon suspensions
Room A	Poster	P30	Dmytruk	Institute of Physics NAS Ukraine	Clusters of ZnO produced by laser ablation
	Poster	P31	Dabolina	Riga Technical University	Investigation of Textile Materials for Laser Light Beam Scanning
	Poster	P32	Irbe	Riga Technical University	Setting properties of brushite and hydroxyapatite compound cements
Room A	Poster	P33	Karaliunas	Vilnius University	Optical Characterization of MBE-grown ZnO Epilayers
	Poster	P34	Salma I.	Riga Technical University	3D cone beam radiodensitometry in evaluation of hydroxyapatite (HA)/tissue hybrid after maxillary sinus floor elevation
	Poster	P35	Sutka	Riga Technical University	Characterization of nano sized Ni-Zn ferrite
Room A	Poster	P36	Zavickis	Riga Technical University	Piezoresistive rubber nanocomposites for pressure sensing
	Poster	P37	Lopatynska	Kyiv National University	The temperature influence on the enzymatic reaction milk-protease
	Poster	P38	Nestore	Riga Technical University	Impact Strength Modification of Polyethylene and Polylactide Biocomposites
Room A	Poster	P39	Szymanski	Warsaw University of Technology	Technological model of FTIR spectrometer for measuring atmospheric pollutions
	Poster	P40	Ligowski	Warsaw University of Technology	Kelvin Probe Force Microscope measurement uncertainty
	Poster	P41	Poplausks	University of Latvia	Dynamic force sensor for material dependent nanometer size contacts with controllable gap potential
Room A	Poster	P42	Sziebig	Narvik University College	Cog Framework- 3D Visualization for Mobile Robot Teleoperation
	Poster	P43	Sziebig	Narvik University College	Telemanipulation without physical contact in the Intelligent Space
	Poster	P44	Sziebig	Narvik University College	Multiple-Camera Optical Glyph Tracking
Room A	Poster	P45	Vembris	Institute of Solid State Physics	Novel amorphous red electroluminescence material based on indan-1,3-dione pyran
	Poster	P46	Salma K.	Riga Technical University	Comparison of biphasic calcium phosphate bioceramics fabricated using different techniques
	Poster	P47	Kalnacs	Institute of Physical Energetics	Separation of Fullerene Mixture by Active Coal
Room A	Poster	P48	Karabko	Belarusian State University of Informatics and Radioelectronics	Magnetization peculiarities of defects in silicon produced by Ni ⁺ , Co ⁺ , Fe ⁺ ion implantation
	Poster	P49	Kaulachs	Institute of Physical Energetics	Influence of thermal annealing on GaOHPc:PCBM/P3HT:PCBM bulk heterojunction solar cell
	Poster	P50	Kropman	Tallinn University of Technology	Interaction of point defects with impurities in the Si-SiO ₂ system and its influence on the interface properties
Room A	Poster	P51	Semchenko	Gomel State University	Synthesis of doped luminescent silica glass and films by sol-gel method
	Poster	P52	Kyslyi	Institute Semiconductor Physics NAS of Ukraine	Negative luminescence efficiency of planar semiconductor structures
	Poster	P53	Puritis	Riga Technical University	Mechanisms of strong photoluminescence of Si nanoparticles
Room A	Poster	P54	Tatekura	Shizuoka University	Suitable truncation of room impulse response for inverse filter design of sound reproduction system
	Poster	P55	Mizeikis	Shizuoka University	Direct laser writing of refractive index micro-structures in lithium niobate
	Poster	P56	Lancere	Riga Technical University	PMMA wettability caused by ultraviolet radiation
Room A	Poster	P57	Tyulkin	Riga Technical University	An effect of Bioimplant Surface Roughness and Electrical Potential on Stromal Stem Cells Maturation and Osteogenic Differentiation in Vitro
	Poster	P58	Jablonski	Warsaw University of Technology	Sensory device for virtual graffiti creation

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Ro	Poster	P59	Fedorenko A.	University of California	Biophysical properties of mitochondrial uncoupling protein 1
	Poster	P60	Zarins	Riga Technical University	Synthesis of red luminiscent non symmetric stryryl-4H-pyran-4-ylidene fragment containing derevatives for organic light-emitting diodes
Room A	Poster	P61	Traskovskis	Riga Technical University	Synthesis and properties of new glassy molecular and oligomers azocompounds suitable for holographic recordings
	Poster	P62	Dauksta	Riga Technical University	Black silicon formation by Nd:YAG laser radiation
	Poster	P63	Onufrijevs	Riga Technical University	Influence of Powerful Laser Radiation on Microhardness of Si crystal
	Poster	P64	Mychko	Riga Technical University	Influence of laser radiation on optical properties and surface structure CdZnTe solid solution.
	Poster	P65	Mychko	Riga Technical University	Increase of CdZnTe crystal radiation hardness by laser radiation
	Poster	P66	Blumbeka	Riga Technical University	P-n junction formation in ITO/p-Si/Al structure by powerful laser radiation for solar cells applications
	Poster	P67	Onufrijevs	Riga Technical University	Decrease of point defect concentration at a surface of ZnO by powerful laser radiation
19:00-22:00		Conference dinner in Riga Latvian Society house (13 Merkela Street)			