



9.09.2014 (Tue) 17:00-21:00			
17:00 - 20:00	Registration	Room 119, 1 Kalku Street	
19:00 - 21:00	Welcome Reception	Great Hall (Lobby), 1 Kalku Street	

10.09.2014 (Wed) 8:00-13:00			
8:00 - 13:00	Registration	Room 119, 1 Kalku Street	

10.09.2014 (Wed) 9:00			
Opening Ceremony		Great Hall, 1 Kalku Street	

9:00 - 9:30	Prof. Arturs Medvids	General Chair of iA2014
	Prof. Leonid Ribickis	Rector of Riga Technical University
	Prof. Talis Juhna	Vice-Rector for Research of Riga Technical University, Co-Chair of iA2014
	Mr. Toshiyuki Taga	Ambassador, Embassy of Japan in Latvia
	Prof. Masakazu Kimura	Vice-President of Shizuoka University

10.09.2014 (Wed) 9:30			
SESSION CHAIRPERSONS: Prof. T. Juhna, Assoc. Prof. D. Kalnina			

Biotechnology and environmental engineering		Great Hall, 1 Kalku Street	
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9:30 - 10:00	Inv. M.Nagatsu	Shizuoka University, Japan	Recent Progress on Medical and Biological Applications of Plasma Science and Technology
10:00 - 10:30	Inv. K.Gross	Riga Technical University, Latvia	Towards biotechnological processing of calcium phosphates
10:30 - 10:45	Oral J.Kondoh	Shizuoka University, Japan	Measurements of human plasma clotting reactions using a shear horizontal surface acoustic wave biosensor

10:45 - 11:15	Coffee break		
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10.09.2014 (Wed) 11:15			
SESSION CHAIRPERSONS: Prof. H. Mimura, Prof. K. Jarašiūnas			

Nanotechnology and nanometrology		Great Hall, 1 Kalku Street	
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11:15 - 11:45	Inv. A.Cavallini	University of Bologna, Italy	Electronic properties of nanowires
11:45 - 12:15	Inv. M.Godlewski	Institute of Physics Polish Academy of Sciences, Poland	Oxides nanoparticles for bio-applications
12:15 - 12:30	Oral M.Tabe	Shizuoka University, Japan	Kelvin Probe Force Microscope observation of donors' arrangement in Si transistor channel
12:30 - 12:45	Oral R.Jablonski	Warsaw University of Technology, Poland	Photon beam transmission through microstructures
12:45 - 13:00	Oral H.Ikeda	Shizuoka University, Japan	Study on phonon drag effect and phonon transport in thin Si-on-insulator layers

13:00 - 14:15	Lunch		
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10.09.2014 (Wed) 14:15			
SESSION CHAIRPERSONS: Prof. I.Dmitruk, Prof. S. Asmontas			

Nanotechnology and nanometrology & Material science and technology, smart materials		Great Hall, 1 Kalku Street	
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14:15 - 14:45	Inv. L.Fedorenko	Institute of Semiconductor Physics of the NAS of Ukraine, Ukraine	Laser-Induced Nano-Fragmentation in the Near Surface Layers of Semiconductors and Metals by Nanosecond Pulses
14:45 - 15:00	Oral Y.Kawata	Shizuoka University, Japan	Deep-UV Surface Plasmon Resonance for the Enhancement of Fluorescent Excitation
15:00 - 15:15	Oral H.Mimura	Shizuoka University, Japan	Novel photocathode using surface plasmon resonance
15:15 - 15:30	Oral V.Gnatyuk	Institute of Semiconductor Physics of the NAS of Ukraine, Ukraine	Laser-Induced Modification of Properties of CdZnTe Crystals
15:30 - 15:45	Oral A.Mychko	Riga Technical University, Latvia	Enhancement of resistivity of CdZnTe crystal by laser radiation
15:45 - 16:00	Oral P.Onufrijevs	Riga Technical University, Latvia	Zn Nanoparticles Formation in ZnO Crystal by Laser Radiation

16:15 - 16:45	Coffee break		
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10.09.2014 (Wed)		16:45		SESSION CHAIRPERSONS: Prof. M.Shimomura, Prof. M.Sychov	
Nanotechnology and nanometrology & Material science and technology, smart materials			Great Hall, 1 Kalku Street		
16:45 - 17:00	Oral	G.Mezinskis	Riga Technical University, Latvia	Influence of Substrate Preparation Method on the Morphologies of TiO ₂ Sol-Gel Derived Coatings	
17:00 - 17:15	Oral	B.Rakos	Budapest University of Technology and Economics, Hungary	Simulation of Basic, Protein-based Logic Gates	
17:15 - 17:30	Oral	D.Moraru	Shizuoka University, Japan	Tunneling transport in quantum dots formed by coupled dopant atoms	
17:30 - 17:45	Oral	A.Dmytruk	Institute of Physics, NAS of Ukraine, Ukraine	Atomically precise nanostructures of CdSe, ZnO, Si ₃ N ₄ : experiments and calculations	
17:45 - 18:00	Oral	G.Laukaitis	Kaunas University of Technology, Lithuania	Doped LaNbO ₄ formation and structural investigation	
18:00 - 18:15	Oral	M.Sedelnikova	National Research Tomsk Polytechnic University, Russia	Laws of synthesis and coloring of the ceramic pigments based on the natural minerals and technogenic waste	
19:00 - 22:00 Social events					

11.09.2014 (Thu)		8:15		SESSION CHAIRPERSONS: Prof. K.Murakami, Prof. M. Godlewski	
Electric and electronic engineering & Plasma physics & Material science and technology, smart materials			Great Hall, 1 Kalku Street		
8:15 - 8:45	Inv.	S. Asmontas	Center for Physical Sciences and Technology, Lithuania	Novel Third Generation Solar Cells	
8:45 - 9:00	Oral	T.Chikada	Shizuoka University, Japan	Hydrogen permeation barriers for advanced energy systems	
9:00 - 9:15	Oral	S.Matsuda	Shizuoka University, Japan	How to Introduce Renewable Energies? - Analysis of the effectiveness of FIT(Feed-in Tariff) mechanism	
9:15 - 9:30	Oral	I.Topala	Alexandru Ioan Cuza University of Iasi, Romania	Laboratory plasma experiments with relevance to molecular astrophysics of hot cores: mass spectrometry diagnosis of helium/hydrogen/alcohols barrier discharges	
9:30 - 9:45	Oral	A.Nastuta	Alexandru Ioan Cuza University of Iasi, Romania	Plasma jets - biomedical materials interface	
9:45 - 10:00	Oral	T.Mieno	Shizuoka University, Japan	Production of carbonaceous molecules by the impact reaction in nitrogen gas by use of a gas-gun	
10:00 - 10:15	Oral	M.Shimomura	Shizuoka University, Japan	Adsorption of pyrrole and pyrazine on the Si(111)-7×7 surface	
10:15 - 10:45 Coffee break					

11.09.2014 (Thu)		10:45		SESSION CHAIRPERSONS: Prof. M. Tabe, Prof. A. Cavallini	
Photonics & Material science and technology, smart materials			Great Hall, 1 Kalku Street		
10:45 - 11:15	Inv.	K.Jarašiūnas	Vilnius University, Lithuania	Development and applications of nonlinear optical techniques for characterization of semiconductor heterostructures and bulk crystals.	
11:15 - 11:45	Inv.	I. Dmitruk	National Taras Shevchenko University of Kyiv, Ukraine	Peculiarities of formation of laser-induced quasi-periodic structures on the surface of metals	
11:45 - 12:00	Oral	T.Sasaki	Shizuoka University, Japan	Recent Progress of GaP THz Signal Generator - Light Source for High Accurate Terahertz Spectrometer	
12:00 - 12:15	Oral	M.Sychov	St. Petersburg State Institute of technology (Technical University), Russia	Acid-base (donor-acceptor) properties of solids and relations with functional properties	
12:15 - 12:30	Oral	J.Gilchrist	Gilden Photonics Ltd, United Kingdom	Optical spectroscopy: the journey of the photon, and what is important for measuring spectra what is important for measuring spectra	
12:30 - 12:45	Oral	A.Oks	Riga Technical University, Latvia	The New Type of Knitted Resistive Fabric and Its Application	
12:45 - 13:00	Oral	O. Slipeniuk	Rigaku Europe, Germany	CT and XRD application and use in Academia	
13:00 - 14:15 Group Photo & Lunch					

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11.09.2014 (Thu)		14:15		SESSION CHAIRPERSONS: Prof. R. Jablonski, Prof. L. Poperenko	
Measurement, identification, and control & Intelligent and soft computing techniques & Modeling and diagnostics & Photonics					
14:15	- 14:30	Oral	A. Ishibashi	Suzuki Motor Corporation, Japan	Telemetric system for automobile engine moving parts at high engine speeds
14:30	- 14:45	Oral	A.Varkonyi-Koczy	Obuda University, Hungary	Patient-Specific Statistics-Based Decision Support in Health Monitoring using Fuzzy Logic
14:45	- 15:00	Oral	Sh.Guseynov	Liepaja University, Latvia	Investigation of one macro-level model of distribution logistics
15:00	- 15:15	Oral	T.Várkonyi	Óbuda University, Hungary	Control of uncertain systems: a combined approach
15:15	- 15:30	Oral	I.Dāboliņa	Riga Technical University, Latvia	Usage of 3D anthropometric data in CAD/CAM individual measurement list
15:30	- 15:45	Oral	J.Aleksejeva	Liepaja University, Latvia	Application of the inverse problems theory's methods for solution of biometric problems: improving resolution of images and recovery of images with strong phase distortions
15:45	- 16:00	Oral	K.Tibenszky-Forika	Obuda University, Hungary	The architecture of high-capacity storage systems
16:00	16:15	Oral	A.Ozols	Riga Technical University, Latvia	Holographic photosensitivity intensity dependence of azobenzene molecular and chalcogenide glassy films
16:15 - 22:00 Social events					

12.09.2014 (Fri)		8:15		SESSION CHAIRPERSONS: Prof. D.Luca, Prof. G. Laukaitis	
I Short Oral Presentations of Special Poster Session for Young Researchers (iAY)					
Great Hall, 1 Kalku Street					
8:15	- 8:20	iAY 1	I. Abele	Riga Technical University, Latvia	The property of military sleeping bags
8:20	8:25	iAY 2	A.Al-Tabich	Warsaw University of Technology, Poland	On the Size of Photon
8:25	- 8:30	iAY 3	A. Antuzevics	University of Latvia, Latvia	Electron paramagnetic resonance study of point defects in ScF3
8:30	- 8:35	iAY 4	R. Apetrei	Alexandru Ioan Cuza Univeristy of Iasi, Romania	Synthesis and characterization of RF sputtered Nb:TiO2 thin films
8:35	- 8:40	iAY 5	K. Avramenko	V. Lashkarev Institute of Semiconductor Physics, NAS of Ukraine, Ukraine	Preparation of ZnO films by MOCVD and the study of structure and optical properties
8:40	- 8:45	iAY 6	M. Baitimirova	University of Latvia, Latvia	Parameter-dependent catalyst free synthesis of bismuth selenide nanostructures
8:45	- 8:50	iAY 7	T. Berestok	Sumy State University, Ukraine	Influence of deposition time on structure and substructure of ZnO
8:50	- 8:55	iAY 8	A. Berzina	Riga Technical University, Latvia	Effect of chemical reduction on pre-exfoliated graphene oxide structure and electric properties
8:55	- 9:00	iAY 9	I. Bite	University of Latvia, Latvia	Individually connected Bi ₂ S ₃ nanowire array for sensor application
9:00	- 9:05	iAY 10	Y. CHANG	National Dong Hwa University, Taiwan	Graphene oxide with different oxidation levels assisted Cu ₂ O as photocatalysts for water splitting
9:05	- 9:10	iAY 11	M. Ciolan	Shizuoka University, Japan	New approach on the development of bioimaging application by employing plasma functionalized zinc oxide
9:10	- 9:15	iAY 12	H. Das	Shizuoka University, Japan	Characterization of Nanocrystalline MgFe ₂ O ₄ Spherical Particles Synthesized by Ultrasonic Spray Pyrolysis Technique
9:15	- 9:20	iAY 13	J. Dāboliņš	Riga Technical University, Latvia	Intelligent tutoring system for learning of CAD/CAM systems
9:20	- 9:25	iAY 14	A. Dineva	Óbuda University, Hungary	Anytime Fuzzy Supervisory System for Signal Auto-Healing
9:25	- 9:30	iAY 15	E. Elksnis	University of Latvia, Latvia	Diamond synthesis using plasma chemical vapor deposition method on different substrate materials at different pressure conditions
9:30	- 9:35	iAY 16	E. Freimanis	Riga Technical University, Latvia	Changes of surface electric potential of bones depending on their age
9:35	- 9:40	iAY 17	D. Gnatyuk	Shizuoka University, Japan	Photoluminescence Spectra of CdTe Single Crystals Subjected to Nanosecond Laser Irradiation
9:40	- 9:45	iAY 18	M. Grecka	Riga Technical University, Latvia	EMF shielding effectiveness depending on structure of fabrics of metallized threads

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9:45	- 9:50	iAY 19	M. Halitovs	University of Latvia, Latvia	Investigations of plasma facing, neutron multiplying and tritium breeding materials for fusion devices
9:50	- 9:55	iAY 20	A. Ivanova	Institute of Physical Energetics, Latvia	Organometal $\text{CH}_3\text{NH}_3\text{Pb}_{1-x}\text{Cl}_x$ perovskite solar cell employing organic charge transport layers
9:55	- 10:00	iAY 21	T. Iwasaki	Shizuoka University, Japan	A Hybrid model to predict corrosion rate of pipes of heat-exchangers
10:00	- 10:05	iAY 22	R. Jijie	Alexandru Ioan Cuza University of Iasi, Romania	Study of plasma polymerization process using styrene and ethylene glycol vapors
10:05 - 10:35 Coffee break					
12.09.2014 (Fri)		10:35		SESSION CHAIRPERSONS: Prof. M.Nagatsu, Prof. L. Fedorenko	
II Short Oral Presentations of Special Poster Session for Young Researchers (iAY) Great Hall, 1 Kalku Street					
10:35	- 10:40	iAY23	B. Karlenko	Taras Shevchenko National University of Kyiv, Ukraine	Optical characterization and quality control methods of thin ferroelectric polymer films
10:40	- 10:45	iAY25	M. Kārklis	Riga Technical University, Latvia	Change of Surface Electric Potential of UV-Irradiated P(VDF-TrFE) Nanolayer Deposited on Glass Substrate
10:45	- 10:50	iAY26	M. Keskinova	Saint-Petersburg State Technological Institute (technical university), Russia	Synthesis of chlorine-silicate phosphors for white light-emitting diodes
10:50	- 10:55	iAY27	O. Klymov	Sumy State University, Ukraine	Deposition time effect on the optical properties of $\text{Zn}(1-x)\text{Mn}(x)\text{Te}$ films obtained by close-spaced vacuum sublimation
10:55	- 11:00	iAY28	I. Komlósi	Óbuda University, Hungary	Anytime Reactive Planning with Decision Automation
11:00	- 11:05	iAY29	A. Kosa-Bārs	Riga Technical University, Latvia	Diamond-Like Carbon Nanofilms for Nanodosimetry of Ultraviolet Radiation
11:05	- 11:10	iAY30	J. Kosmaca	University of Latvia, Latvia	Investigation of nanowire-based nanoelectromechanical switch contact dynamics
11:10	- 11:15	iAY31	A. Linarts	Riga Technical University, Latvia	Piezoresistivity and electrical resistance relaxation of polyisoprene nanostructured carbon allotrope hybrid composites
11:15	- 11:20	iAY32	D. Malinovska	Riga Technical University, Latvia	Nonlinear properties of soft ferrites
11:20	- 11:25	iAY33	V. Mecnika	Riga Technical University, Latvia	Technical Embroidery for Smart and Intelligent Textiles
11:25	- 11:30	iAY34	V. Mecnika	Riga Technical University, Latvia	Melt-Spinning of Graphene-Modified Polymeric Fibres for Applications in Textiles
11:30	- 11:35	iAY35	I. Mihailova	Daugavpils University, Latvia	Hydrothermal growth of well-aligned ZnO nanorod arrays
11:35	- 11:40	iAY36	O. Muthusamy	Shizuoka University, Japan	In-situ observation of dissolution and growth processes of $\text{Si}_{1-x}\text{Ge}_x$ under different temperature gradients
11:40	- 11:45	iAY37	A. Mykytiuk	Taras Shevchenko National University of Kyiv, Ukraine	Photogeneration and recombination processes in Ge-Si heterostructures with Ge nanoclusters grown on Si(001)
11:45	- 11:50	iAY38	G. Nagy	Óbuda University, Hungary	Construction of anytime algorithms for robust speech recognition
11:50	- 11:55	iAY39	I. Nasieka	V. Lashkarev Institute of Semiconductor Physics, NAS of Ukraine, Ukraine	Diamond films based radiation detectors: optical, electrophysical and detecting characteristics.
11:55	- 12:00	iAY40	M. Rahman	Shizuoka University, Japan	New and Safe Method of Carbon Nanotube Functionalization to Enhance Water-Dispersibility
12:00	- 12:05	iAY41	M. Romanova	Riga Technical University, Latvia	PbS Nanodots for Nanodosimetry of Ionizing Radiation
12:05	- 12:10	iAY42	E. Rostoka	Riga Technical University, Latvia	Digital signal analysis for abnormal electrocardiogram (ECG) signal research and development of open source abnormal ECG signal generator
12:10	- 12:15	iAY43	A. Seile	Riga Technical University, Latvia	Nonwovens in the Automobile Interior
12:15	- 12:20	iAY44	K. Seo	Shizuoka University, Japan	A Two-dimensional thermodynamic simulation for the hydrogen tank lower limit temperature of the HFCV

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12:20	- 12:25	iAY45	Y. Shynkarenko	Institute of Physics, National Academy of Sciences of Ukraine, Ukraine	Transient absorption of gold nanoparticles and cross-phase modulation enhancement
12:25	- 12:30	iAY46	U. Sidorovica	Riga Technical University, Latvia	The development of hemp fibre nonwovens
12:30	- 12:35	iAY47	I. Sitvjenkins	Riga Technical University, Latvia	Evaluation of camouflage
12:35	- 12:40	iAY48	T. Solovjova	Riga Technical University, Latvia	Free Form 3-D Current Loop Calculations (will be specified later)
12:40	13:55	Lunch			
12.09.2014 (Fri)		13:55	SESSION CHAIRPERSONS: Prof. Y. Kawata, Prof. K. Murakami		
III Short Oral Presentations of Special Poster Session for Young Researchers (iAY)				Great Hall, 1 Kalku Street	
13:55	- 14:00	iAY49	A. Statsenko	Taras Shevchenko National University of Kyiv, Ukraine	Optical trapping and manipulation of polymer spheres and organelles of HeLa cells
14:00	- 14:05	iAY50	S. Stepiņa	Riga Technical University, Latvia	Ethylene vinyl acetate copolymer and nanographite hybrid composite as innovative material for chemical vapour sensing
14:05	- 14:10	iAY51	S. Surya	Shizuoka University, Japan	Study of interband tunneling in nanoscale Si pn junctions
14:10	- 14:15	iAY52	A. Sutka	Riga Technical University, Latvia	Visible light active anatase and ferrite multi-component heterostructures
14:15	- 14:20	iAY53	S. Suzuki	Ricoh, Japan	Treatment of the industrial wastewater by supercritical water oxidation
14:20	- 14:25	iAY54	I. Šroma	Design Technology Institute, Latvia	Physiological Comfort in Clothing
14:25	- 14:30	iAY55	H. Takahashi	Shizuoka University, Japan	Development of an in situ tool wear monitoring system using the cutting sound
14:30	- 14:35	iAY57	B. Tusor	Óbuda University, Hungary	A Hybrid Fuzzy-RBFN Filter for Data Classification
14:35	- 14:40	iAY58	M. Vanags	University of Latvia, Latvia	Comparison of hematite thin film photo-electrochemical properties prepared by spray pyrolyses and electrodeposition methods
14:40	- 14:45	iAY59	L. Vecbiskena	Riga Technical University, Latvia	Formation of calcium-deficient hydroxyapatite via hydrolysis of nano-sized pure α -tricalcium phosphate
14:45	- 14:50	iAY60	M. Veerappan	Shizuoka University, Japan	Phonon-Drag Contribution to Seebeck Coefficient of Ge- and Si-on-Insulator Layers.
14:50	- 14:55	iAY61	N. Velu	Shizuoka University, Japan	Growth of InGaSb alloy semiconductor crystal under 1G condition as a preliminary study for microgravity experiment at International Space Station
14:55	15:00	iAY62	A. Vrublevskis	Riga Technical University, Latvia	Benzene Detection in Air with Zeeman Atomic Absorption Technique
15:00	- 15:05	iAY63	R. Winantyo	Shizuoka University, Japan	Dye-sensitized solar cells based on ZnO nanorods array
15:05	- 15:10	iAY64	V. Zalite	Riga Technical University, Latvia	Preparation of F-doped hydroxyapatite via wet-chemical precipitation technique combined with pH-cycling
15:10	- 15:15	iAY65	K. Zelenska	Taras Shevchenko National University of Kyiv, Ukraine	Terahertz spectroscopy studies of solid-state salicylic acid
15:15	15:20	iAY66	M. Safonova	Tallinn University of Technology, Estonia	Chemical bath deposition of SnS thin films from the solutions with different concentrations of tin and sulphur
15:20	15:25	iAY67	L. Mihkel	Tallinn University of Technology, Estonia	Fabrication of CdS/SnS heterojunction using thermal evaporation
15:25	- 15:55	Coffee break			
12.09.2014 (Fri)		16:00-18:00			
Poster Session & Special Poster Session for Young Researchers				Great Hall, 1 Kalku Street	
Poster	iAY 1	I. Abele	Riga Technical University, Latvia	The property of military sleeping bags	
Poster	iAY 2	A.Al-Tabich	Warsaw University of Technology, Poland	On the Size of Photon	
Poster	iAY 3	A. Antuzevics	University of Latvia, Latvia	Electron paramagnetic resonance study of point defects in ScF ₃	

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Poster	iAY 5	K. Avramenko	V. Lashkarev Institute of Semiconductor Physics, NAS of Ukraine, Ukraine	Preparation of ZnO films by MOCVD and the study of structure and optical properties
Poster	iAY 6	M. Baitimirova	University of Latvia, Latvia	Parameter-dependent catalyst free synthesis of bismuth selenide nanostructures
Poster	iAY 7	T. Berestok	Sumy State University, Ukraine	Influence of deposition time on structure and substructure of ZnO
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Poster	iAY 10	Y. Chang	National Dong Hwa University, Taiwan	Graphene oxide with different oxidation levels assisted Cu _x O as photocatalysts for water splitting
Poster	iAY 11	M. Ciolan	Shizuoka University, Japan	New approach on the development of bioimaging application by employing plasma functionalized zinc oxide
Poster	iAY 12	H. Das	Shizuoka University, Japan	Characterization of Nanocrystalline MgFe ₂ O ₄ Spherical Particles Synthesized by Ultrasonic Spray Pyrolysis Technique
Poster	iAY 13	J. Dāboliņš	Riga Technical University, Latvia	Intelligent tutoring system for learning of CAD/CAM systems
Poster	iAY 14	A. Dineva	Óbuda University, Hungary	Anytime Fuzzy Supervisory System for Signal Auto-Healing
Poster	iAY 15	E. Elksnis	University of Latvia, Latvia	Diamond synthesis using plasma chemical vapor deposition method on different substrate materials at different pressure conditions
Poster	iAY 16	E. Freimanis	Riga Technical University, Latvia	Changes of surface electric potential of bones depending on their age
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Poster	iAY 18	M. Grecka	Riga Technical University, Latvia	EMF shielding effectiveness depending on structure of fabrics of metallized threads
Poster	iAY 19	M. Halitovs	University of Latvia, Latvia	Investigations of plasma facing, neutron multiplying and tritium breeding materials for fusion devices
Poster	iAY 20	A. Ivanova	Institute of Physical Energetics, Latvia	Organometal CH ₃ NH ₃ PbI _{3-x} Cl _x perovskite solar cell employing organic charge transport layers
Poster	iAY 21	T. Iwasaki	Shizuoka University, Japan	A Hybrid model to predict corrosion rate of pipes of heat-exchangers
Poster	iAY 22	R. Jijie	Alexandru Ioan Cuza University of Iasi, Romania	Study of plasma polymerization process using styrene and ethylene glycol vapors
Poster	iAY 23	B. Karlenko	Taras Shevchenko National University of Kyiv, Ukraine	Optical characterization and quality control methods of thin ferroelectric polymer films
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Poster	iAY 28	I. Komlósi	Óbuda University, Hungary	Anytime Reactive Planning with Decision Automation
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Poster	iAY 30	J. Kosmaca	University of Latvia, Latvia	Investigation of nanowire-based nanoelectromechanical switch contact dynamics
Poster	iAY 31	A. Linarts	Riga Technical University, Latvia	Piezoresistivity and electrical resistance relaxation of polyisoprene nanostructured carbon allotrope hybrid composites

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Poster	iAY 34	V. Mecnika	Riga Technical University, Latvia	Melt-Spinning of Graphene-Modified Polymeric Fibres for Applications in Textiles
Poster	iAY 35	I. Mihailova	Daugavpils University, Latvia	Hydrothermal growth of well-aligned ZnO nanorod arrays
Poster	iAY 36	O. Muthusamy	Shizuoka University, Japan	In-situ observation of dissolution and growth processes of $Si_{1-x}Ge_x$ under different temperature gradients
Poster	iAY 37	A. Mykytiuk	Taras Shevchenko National University of Kyiv, Ukraine	Photogeneration and recombination processes in Ge-Si heterostructures with Ge nanoclusters grown on Si(001)
Poster	iAY 38	G. Nagy	Óbuda University, Hungary	Construction of anytime algorithms for robust speech recognition
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Poster	iAY 49	A. Statsenko	Taras Shevchenko National University of Kyiv, Ukraine	Optical trapping and manipulation of polymer spheres and organelles of HeLa cells
Poster	iAY 50	S. Stepina	Riga Technical University, Latvia	Ethylene vinyl acetate copolymer and nanographite hybrid composite as innovative material for chemical vapour sensing
Poster	iAY 51	S. Surya	Shizuoka University, Japan	Study of interband tunneling in nanoscale Si pn junctions
Poster	iAY 52	A. Sutka	Riga Technical University, Latvia	Visible light active anatase and ferrite multi-component heterostructures
Poster	iAY 53	S. Suzuki	Ricoh, Japan	Treatment of the industrial wastewater by supercritical water oxidation
Poster	iAY 54	I. Šroma	Design Technology Institute, Latvia	Physiological Comfort in Clothing
Poster	iAY 55	H. Takahashi	Shizuoka University, Japan	Development of an in situ tool wear monitoring system using the cutting sound
Poster	iAY 57	B. Tusor	Óbuda University, Hungary	A Hybrid Fuzzy-RBFN Filter for Data Classification
Poster	iAY 58	M. Vanags	University of Latvia, Latvia	Comparison of hematite thin film photo-electrochemical properties prepared by spray pyrolyses and electrodeposition methods
Poster	iAY 59	L. Vecbiskena	Riga Technical University, Latvia	Formation of calcium-deficient hydroxyapatite via hydrolysis of nano-sized pure α -tricalcium phosphate
Poster	iAY 60	M. Veerappan	Shizuoka University, Japan	Phonon-Drag Contribution to Seebeck Coefficient of Ge- and Si-on-Insulator Layers.

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Poster	iAY 61	N. Velu	Shizuoka University, Japan	Growth of InGaSb alloy semiconductor crystal under 1G condition as a preliminary study for microgravity experiment at International Space Station
Poster	iAY 62	A.Vrublevskis	Riga Technical University, Latvia	Benzene Detection in Air with Zeeman Atomic Absorption Technique
Poster	iAY 63	R. Winantyo	Shizuoka University, Japan	Dye-sensitized solar cells based on ZnO nanorods array
Poster	iAY 64	V. Zalite	Riga Technical University, Latvia	Preparation of F-doped hydroxyapatite via wet-chemical precipitation technique combined with pH-cycling
Poster	iAY 65	K. Zelenska	Taras Shevchenko National University of Kyiv, Ukraine	Terahertz spectroscopy studies of solid-state salicylic acid
Poster	iAY 66	M. Safonova	Tallinn University of Technology, Estonia	Chemical bath deposition of SnS thin films from the solutions with different concentrations of tin and sulphur
Poster	iAY 67	L. Mihkel	Tallinn University of Technology, Estonia	Fabrication of CdS/SnS heterojunction using thermal evaporation
Poster	P1	D. Bejakova	Riga Technical University, Latvia	Work measurement, identification, and control
Poster	P2	N. Berezovska	Taras Shevchenko National University of Kyiv, Ukraine	Laser-induced Ag nanostructures for the surface plasmons excitation
Poster	P3	A. Bernava	Riga Technical University, Latvia	Flame Retardant Coating of Linen Fabrics
Poster	P4	A. Bernava	Forest Industry Competence Centre, Latvia	Study of Mechanical Properties of Natural and Hybrid Fibres Reinforcements
Poster	P5	Sh. Guseynov	Liepaja University, Latvia	One one regularizing algorithm for diagnosing of complex apparatus, engines and machinery
Poster	P6	D. Kalnina	Riga Technical University, Latvia	Transient Behavior of AgI Colloidal Nanoparticles in solution
Poster	P7	S. Khakhomov	Francisk Skorina Gomel State University, Belarus	Helical metamaterial elements as RLC circuit
Poster	P8	S. Khakhomov	Francisk Skorina Gomel State University, Belarus	Total absorption based on smooth double-turn helices
Poster	P9	O. Kolomys	V. Lashkarev Institute of Semiconductor Physics, NAS of Ukraine, Ukraine	Effect of rapid thermal annealing on Raman and photoluminescence properties of GaAs _{1-x} Bi _x heterostructures
Poster	P10	T. Mashiko	Shizuoka University, Japan	Effect of evacuee distribution on escape from a multi-room building
Poster	P11	A. Osīte	University of Latvia, Latvia	Synthesis of strontium peroxyapatite
Poster	P13	A. Rogachev	Francisk Skorina Gomel State University, Belarus	Nitrogen doped carbon coatings: structure and electrical properties
Poster	P14	A. Rogachev	Francisk Skorina Gomel State University, Belarus	Vacuum-plasma synthesis of functional coatings using targets obtained by the sol- gel method
Poster	P15	A.Semchenko	Francisk Skorina Gomel State University, Belarus	Sol-gel synthesis of functional nanostructured materials for electronic devices
Poster	P16	Z. Rutkuniene	Kaunas University of Technology, Lithuania	Influence of temperature to amorphous carbon films with silver impurities formation
Poster	P17	I. Sahta	Riga Technical University, Latvia	Development of Textile Based Sewn Switches for Smart Textile
Poster	P18	A. Skute	Armgate Ltd., Latvia	Source identification of nitrate by means of isotopic tracers in the River Daugava and loads of nitrogen to the Gulf of Riga
Poster	P19	G. Terlecka	Riga Technical University, Latvia	Kinds of flat inductive elements
Poster	P20	S. Vihodceva	Riga Technical University, Latvia	Antimicrobial Properties of the Modified by the Sol-gel Technology Cellulose Textiles against Destruction Causing Microorganisms
Poster	P21	T.Puritis	Riga Technical University, Latvia	About anomalous redshift of photoluminescence in Si nanocrystals
Poster	P22	A.Gorb	Taras Shevchenko National University of Kyiv, Ukraine	Photoelectric response of Ge nanocones formed on Si _{1-x} Ge _x by laser radiation

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Poster	P23	S.Gendelis	Armgate, Latvia	Multiphysical mathematical modelling of counterflow heat exchanger with condensation
Poster	P24	I.Sitvjenkins	Latvian National Armed Forces, Latvia	Estimation of combat sleeping bag system of Latvian National Armed Forces
Poster	P25	P.Onufrijevs	Riga Technical University, Latvia	Improvement of CdS optical properties and crystallinity by laser radiation
Poster	P26	L.Grāse	Riga Technical University, Latvia	Submicron Illite Clays Improve the Strength of Geopolymers
Poster	P27	J.Kaupuz	Riga Technical University, Latvia	Increase of Solar Cells Efficiency Using Graded Band-Gap Semiconductor
Poster	P28	P.Onufrijevs	Riga Technical University, Latvia	Excitation and charge transfer in organic-inorganic hybrid nanostructures for light harvesting
Poster	P29	E.Dauksta	Riga Technical University, Latvia	Materials and Photosensor Devices with High Radiation Stability
17:30 - 18:30 Meeting of Inter Academia Executive Committee (Closed Session)				
12.09.2014 (Fri) 19:00				
19:00 Conference dinner with the closing ceremony. Awarding of the best young researchers and the presentation of the chairman of iA-2015				