VERSION MARCH 21

April 2
Plenary Session I

		OPENING, WELCOME		9:00-9:15
1	T.Harper	NANOTECHNOLOGIES AS A POWERFUL INSTRUMENT IN IMPROVING AND CREATING NEW PROPERTIES FOR FUNCTIONAL MATERIALS	**PI-1**	9:15-9:40

April 2
Nanostructuring I

1	R.Evarestov, A,Bandura, E.Blokhin	THE WATER ADSORPTION ON THE SURFACES OF SrMO3 (M=Ti, Zr, AND Hf) CRYSTALLINE OXIDES: QUANTUM AND CLASICAL MODELLING	**Inv-1**	9:40-10:00
2	I.Shorubalko, A.Pfund, R.Leturcq, R.Krischek, F.Gramm, E.Müller, S.Schön, K.Ensslin	QUANTUM DOTS IN InAs NANOWIRES FOR SINGLE CHARGE AND SPIN STUDIES	**OR-1**	10:00-10:15
3	A.Gulans,M.Puska, I.Gerber, R.Nieminen	DFT STUDIES OF EXTENDED SYSTEMS INCLUDING VAN DER WAALS INTERACTIONS	**OR-2**	10:15-10:30
4	A.Jänes, H.Kurig, T.Thomberg, E.Lust	ADVANCED NANOSTRUCTURED CARBON MATERIALS FOR ELECTRICAL DOUBLE LAYER CAPACITORS	**OR-3**	10:30-10:45
5	O.Chikalova-Luzina	PHASE EQUILIBRIA IN MBE OF QUATERNARY SOLID SOLITONS III'-III"-V PLUS DOPANT: APPLICATION TO InGaAs: Sn THIN FILMS	**OR-4**	10:45-11:00
6	R.Skaudzius, A.Selskis, J.Pinkas, A.Kareiva	SYNTHESIS AND EVOLUTION OF CRYSTALLINE GARNET PHASES IN $Y_3Al_{5-x}In_xO_{12}$	**OR-5**	11:00-11:15

April 2
Nanostructuring II

1	J.Tiliks, V.Tilika, G.Kizane, B.Leschinskis, A.Vitins, A.Actins	TRITIUM BREEDING CERAMIC PEBBLES SYNTHESIZED FROM NANOPWDERS	**OR-6**	11:30-11:45
2	J.Grabis, A.Orlovs, Dz.Rasmane	NANOSIZED LITHIUM TITANATES PRODUCED BY PLASMA TECHNIQUE	**OR-7**	11:45-12:00
3	I.Vitina, V.Rubene, V.Belmane, A.Krumina	PHASE COMPOSITION AND STRUCTURE OF THIN Sn-Co ALLOY LAYERS FOR DIFFERENT ELECTRODEPOSITION PROCESSES	**OR-8**	12:00-12:15
4	A.Medvids, P.Onufrijevs, I.Dmytruk, I.Pundyk	PROPERTIES OF NANOHILLS FORMED ON A SURFACE OF Ge, Si AND GaAs BY LASER RADIATION: QUANTUM CONFINEMENT EFFECT	**OR-9**	12:15-12:30
5	J.Maniks, I.Manika	EFFECT OF THE SURFACE CHARGE ON HARDNESS AT THE SUB-MICROMETER SCALE INDENTATION ON CLEAVAGE SURFACES OF LiF	**OR-10**	12:30-12:45

April 2
Ferroelectric & magnetic materials I

1	M.Tyunina, I.Jaakola, M.Plekh, J.Levoska	NANOSCALE ENGINEERING OF FERROELECTRIC FUNCTIONALITY	**Inv-2**	14:00-14:20
2	A.Badalyan, C.Azzoni, P.Galinetto, M.Mozzati, V.Trepakov, L.Jastrabik, A.Deyneka, J.Rosa	IMPURITY CENTERS AND HOST MICROSTRUCTURE IN WEAKLY CONCENTRATED $SrTiO_3$:Mn CRYSTAL: NEW FINDINGS	**OR-11**	14:20-14:35
3	C.Pithan, Y.Shiratori, A.Magrez	SIZE EFFECTS IN NANOSCALE OF KEAD FREE PIEZOELECTRIC COMPOUNDS BASED ON ALKALINE NIOBATES	**OR-12**	14:35-14:50
4	J. Grigas, E.Talik, V.Lazauskas	XPS OF INCOMMENSURATE AND ELECTRONIC STRUCTURE OF MATERIALS	**OR-13**	14:50-15:05
5	S.Davitadze, B.Strukov	THERMOPHYSICAL CHARACTERIZATION OF NANOSTRUCTURED FERROELECTRIC THIN FILMS	**OR-14**	15:05-15:20
6	L.I.Ivleva, I.S.Voronina, P.A.Lykov, T.R.Volk	DOMAIN STRUCTURE AND POLING OF SBN CRYSTAL	**OR-15**	15:20-15:35
7	J.Macutkevic, S.Kamba, J.Banys, K.Bormanis, A.Sternberg, V.Zauls	Far-infrared and THz spectroscopy of 0.4PMN-0.3PSN-0.3PZN relaxor ferroelectric ceramic	**OR-16**	15:35-15:50

April 2
Ferroelectric & magnetic materials II

1	P.Keburis, J.Banys, A. Brilingas, A.L.Kholkin, M.E.V.Costa	DIELECTRIC PROPERTIES OF 0,25 BBT – 0,75 SBT CERAMICS	**OR-17**	16:10-16:25
2	A.Dziaugys, J.Banys, V.Samulionis, Y.Vysochanskii	DIELECTRIC STUDIES OF MIXED $CuIn_{04}Cr_{06}P_2S_6$ AND $CuIn_{08}Cr_{02}P_2S_6$ CRYSTALS	**OR-18**	16:25-16:40
3	M.Kinka, A.Meskauskas, J.Banys, G.Völkel, W.Böhlmann, V.Umamaheswari, M.Hartmann, A.Pöppl	DIELECTRIC SPECTROSCOPY OF BETAINE PHODPHITE (BPI) CONFINED IN SBA – 15 MOLECULAR SIEVE MATERIALS WITH 6.5 nm AND 9 nm PORES	**OR-19**	16:40-16:55
4	A. Mezulis, E.Blums, G.Kronkalns	VECTIVE INTENSIFICATION OF HEAT TRANSFER FROM A HEATER BODY IN MAGNETIC FLUID	**OR-20**	16:55-17:10
5	O.Petričenko, E.Blūms, M.Maiorovs, A.Cēbers	SYNTHESIS OFMAGNETIC NANOPARTICLES AND THEIR PROPERTIES AND THEIR PROPERTIES	**OR-21**	17:10-17:25
6	A.Cebers, A.Sharipo, A.Zeltinsh, K.Erglis	EXPERIMENTAL STUDY OF THE DYNAMICS OF MAGNETOTACTIC BACTERIA IN ROTATING MAGNETIC FIELDS	**OR-22**	17:25-17:40
7	K.Erglis, D.Zhulenkov, A.Sharipo, A.Cebers	BENDING MODULUS OF DNA LINKED MAGNETIC FILAMENTS IN DEPENDENCE ON IONIC STRENGTH	**OR-23**	17:40-17:55

		POSTER SESSION & WELCOME PARTY		18:00-20:00

April 3
Materials for energetics

1	C.G.Granqvist	OXIDE ELECTROCHROMICS FOR THE BUILT ENVIRONMENT: WHY, HOW AND WHITHER	**Inv-3**	9:00-9:20
2	G.Vaivars, V.Linkov	NANO COMPOSITE MEMBRANE-ELECTRODE ASSEMBLY FORMATION FOR FUEL CELL – MODELING ASPECTS	**OR-24**	9:20-9:35
3	E.Lust, G.Nurk, I.Kivi, P.Möller, S.Kallip	INFLUENCE OF ELECTRODE POROSITY ON THE OXYGEN REDUCTION KINETICS ON THE INTERMEDIATE TEMPERATURE SOFCs	**OR-25**	9:35-9:50
4	A.I. Gavrilyuk	PROTON-COUPLED ELECTRON TRANSFER TUNNELING REACTIONS IN WO_3 AND MoO_3 NANOSTRUCTURES	**OR-26**	9:50-10:05
5	L.Grinberga, J.Kleperis	DEVELOPMENT OF NEW COMPOSITE MATERIALS FOR HYDROGEN STORAGE	**OR-27**	10:05-10:20
6	M.Vanags, J.Kleperis, G.Bajars, A.Lusis	WATER ELECTROLYSIS USING ELECTRODES WITH MODIFIED SURFACE/VOLUME	**OR-28**	10:20-10:35
7	G.Chikvaidze, J.Gabrusenoks, J.Kleperis, G.Vaivars	APPLICATION OF MICRO RAMAN SPECTROSCOPY TO INDUSTRIAL FC MEMBRANES	**OR-29**	10:35-10:50

April 3
Organic materials

1	M.Rutkis, V.Kampars, A.Jurgis, A.Vembris, A.Tokmakovs, V.Kokars	TOWARD DEVICE APPLICABLE POLYMER SECOND ORDER NONLINEAR OPTICAL MATERIALS	**OR-30**	11:10-11:25
2	A.Vembris, M.Rutkis, E.Laizane, J.Sipols	EFFECT OFCORONA POLING AND THERMO CYCLING SEQUENCE ON THE HOST-GUEST SYSTEM PROPERTIES	**OR-31**	11:25-11:40
3	D.Saharov , A.Ozols, V.Kokars, V.Kampars, G.Mezinskis, A.Maleckis, A.Pludons, M.Jansone	RELAXATION EFFECT OF STILBENE AZOBENZENE DERIVATIVES ON THEIR HOLOGRAPHIC PROPERTIES	**OR-32**	11:40-11:55
4	I.Muzikante, E.Fonavs, B.Stiller, D.Neher, V.Kampars, P.Pastors	LIGHT INDUCED ELECTRICAL AND MECHANICAL PROCESSES IN THIN FILMS OF INDANDIONE TYPE MOLECULES	**OR-33**	11:55-12:10
5	I.Kaulach, I.Muzikante, L.Gerca, M.Plotniece, M.Roze, J.Kalnachs, G.Shlihta, P.Shipkovs, V.Parra, V.Kampars	PV EFFECT IN MULTILAYER CELLS OF FULLERENE/ POLY (3-HEXYLTHIOPHENE) AND PHTHALOCYANINE HAVING NIR CHARGE TRANSFER ABSORPTION BAND	**OR-34**	12:10-12:25
6	J.Latvels, E.Fonavs, I.Muzikante, M.Bouvet, V.Parra, G.Juska, K.Genevicius	ELECTRICAL PROPERTIES OF HETEROJUNCTION-BASED DEVICE OF PHTHALOCYANINE DERIVATIVES	**OR-35**	12:25-12:40

April 3
Nanotubes

1	C.Balasubramanian, S.Belluci, M.Cestelli Guidi, A.Ivanov, A.Popov, H.Schober, V.Savchyn, Yu.Zhukovskii	ALUMINIUM NITRIDE NANOTUBES: CHARACTERIZATION BY XANES, FTIR, INELASTIC NEUTRON SCATTERING AND LUMINESCENCE SPECTROSCOPIES	**OR-36**	14:00-14:15
2	Y.Zhukovskii, A.Popov, C.Balasubramanian, S.Bellucci	THEORETICAL SIMULATIONS OF REGULAR AND DEFECTIVE ALUMINIUM NITRIDE NANOTUBES	**OR-37**	14:15-14:30
3	J.Andzane, J.D.Holmes, D.Erts	In situ NANODEVICES BASED ON FREE STANDING NANOWIRES AND NANOTUBES	**OR-38**	14:30-14:45
4	K.Didriksone, P.Birjukovs, J.Svirksts,N.Petkov, J.D.Holmes, P.Gleeson, D.Erts	CROSSECTIONAL CHARACTERISATION OF SEMICONDUCTOR NANOWIRE ARRAYS	**OR-39**	14:45-15:00
5	J.Andzane, J.Prikulis, J.Tobin, Z.Li, J.D.Holmes, D.Erts	In situ INVESTIGATION OF ELECTRICAL PROPERTIES OF CARBON NANOTUBES GROWN BY DIFFERENT METHODS	**OR-40**	15:00-15:15
6	R.Poplausks, J.Andzane, U.Malinovskis, I.Muiznieks, J.Svirksts, A.Strauss, R.Gzibovskis, D.Erts	ELECTROCHEMICAL ETCHED Al TIPS WITH NANOPOROUS ALUMINIUM OXIDE COATINGS	**OR-41**	15:15-15:30

April 3
Glasses & fibres

1	L.Maksimov, I. Alekseeva, A. Anan'ev, A.Lipovskii, V.Polukhin, D.Taganstev, B.Tatarintsev, A.Vetrov, O.Yanush	GLASSES FOR ELECTROOPTICAL FIBERS: DESIGN, STRUCTURE, PROPERTIES	**OR-42**	15:45-16:00
2	V.Bogdanov, A.Anan'ev, V.Golubkov, A.Golovnev, L.Maksimov, V.Solovyev, O.Yanush	MICRO- AND NANOINHOMOGENEITIES IN GLASSES AND THEIR MELTS STUDIED BY OPTICAL, SAXS, ACOUSTICAL AND THERMODYNAMIC METHODS	**OR-42**	16:00-16:15
3	T.Tätte, M.Paalo, R.Talviste, J.Shulga, K.Saal, A.Lõhmus, I.Kink	PREPARATION OF SEMI –1D TRANSITION METAL OXIDE STRUCTURES	**OR-43**	16:15-16:30
4	A. Kovalovs, E. Barkanov, S.Gluhihs	ACTIVE CONTROL OF STRUCTURES USING MACRO-FIBER COMPOSITE (MFC)	**OR-45**	16:30-16:45

April 4
Spectroscopy & optical properties I

1	N.E.Christensen, R.Laskowski	AB INITIO CALCULATIONS OF OPTICAL PROPERTIES INCLUDING E-H CORRELATIONS	**Inv-4**	9:00-9:20
2	W.Łojkowski, J.D.Fidelus, T.Chudoba, R.Fedyk, A.Opalinska, T.Strachowski, R.Pielaszek	SYNTHESES AND CHARACTERISATION OF OXIDE NANOPOWDERS FOR OPTICAL APPLICATIONS	**OR-46**	9:20-9:35
3	J.D.Fidelus, W.Łojkowski, D.Millers, L.Grigorjeva, K.Smits	ADVANCED NANOSTRUCTURED ZIRCONIA MATERIALS FOR OXYGEN SENSOR	**OR-47**	9:35-9:50
4	K.Smits, L..Grigorjeva, J.D.Fidelus, W.Łojkowski, D.Millers	COMPARISON OF ZnO2 NANOCRYSTALS AND MACROSCOPIC SINGLE CRYSTAL LUMINESCENCE	**OR-48**	9:50-10:05
5	M.Kirm, J.Aarik, V.Denks, E.Feldbach, A.Kotlov, P.Liblik, V.Nagirnyi	LUMINESCENCE SPECTROSCOPY OF HfO_2 AND ZrO_2 THIN FILMS	**OR-49**	10:05-10:20
6	L.Grigorjeva, D.Millers, J.Grabis, C.Monty	Blue Luminescence in ZnO crystal, nanopowders, ceramic	**OR-50**	10:20-10:35
7	V.Pankratov, L.Grigorjeva, D.Millers	TIME-RESOLVED LUMINESCENCE OF NANOCRYSYALLINE INORGANIC OXIDES	**OR-51**	10:35-10:50

April 4
Spectroscopy & optical properties II

1	D.Pailharey, Y.Mathey, F.Jandard, S.Larcheri, F.Rocca, A.Kuzmin, R.Kalendarev, J.Purans, G.Dalba, R.Graziola, O.Dhez	NANO-SCALE X-RAY ABSORPTION ON SPECTROSCOPY USING XEOL-SNOM DETECTION MODE	**OR-52**	11:10-11:25
2	V.Aksenov, V.Kvardakv, V.Shaliapin, S.Tyutyunnikov	STATION OF THE ENERGY-DISPERSIVE EXAFS-SPECTROSCOPY AT THE RUSSIAN NATIONAL CENTER OF SR "KURCHATOV INSTITUTE"	**OR-53**	11:25-11:40
3	N.Mironova-Ulmane, A.Kuzmin, J.Grabis, I.Steins, I.Sildos, M.Pars	RAMAN SPECTROSCOPY IN NANOSIZED NICKEL OXIDE	**OR-54**	11:40-11:55
4	B.Berzina, L.Trinkler, V.Korsaks, R.Williams, B.Ucer, D.Carroll	LUMINESCENCE FROM NANOARCHES IN h-BN	**OR-55**	11:55-12:10
5	L.Trinkler, B.Berzina, D.Kasjan, Li-Chyong Chen	LUMINESCENCE PROPERTIES OF AlN NANOSTRUCTURES REVEALED UNDER UV LIGHT IRRADIATION	**OR-56**	12:10-12:25
6	A.Sarakovskis, L.Dimitrocenko, A.Misnevs, U.Rogulis, M.Springis	UP-CONVERSION PROCESS IN ERBIUM DOPED LITHIUM FLUORIDE BULK CRYSTAL, LITHIUM BORATE OXYFLUORIDE GLASS AND GLASS CERAMICS	**OR-57**	12:25-12:40

April 4
Biomaterials & technologies I

1	I.N.Mihailescu, G.Socol, C.Ristoscu, F.Sima, A.Popescu, E.Palcevskis, A.Dindune, Z. Kanepe, A.Bigi, L. Zdrentu, S.M.Petrescu, I.Mayer, Dj.Janackovic. J.Werckmann, S.P.Lyngstadaas	NANOSTRUCTURED BIOACTIVE COATINGS FOR ADVANCED BIOMIMETIC IMPLANTS	**Inv-5**	14:00-14:30
2	B.Bairamov, V.Toporov, F.Bayramov, M.Petukhov, E.A.Glazunov, B.Shchegolev, M.Dutta, M.A.Stroscio, G.Irmer	INELASTIC LASER LIGHT SCATTERING SPECTROSCOPY AND NANOSCALE FUNCTIONALIZATION OF SEMICONDUCTOR QUANTUM DOTS WITH PEPTIDES AND INTEGRINS OF CANCER CELLS FOR BIOPHOTONICS APPLICATIONS	**Inv-6**	14:30-14:50
3	E.Palcevskis, A.Dindune, Z.Kanepe, A.Lipe, J.Krastins	MANUFACTURING OF VARIOUS KINDS OF CALCIUM HYDROXYAPATITE POWDERS	**OR-58**	14:50-15:05
4	R.L.Sammons, A.Thackray, P.M.Marquis, P.Yong, L.E.Macaskie, H.Medina Ledo, I.P.Jones	CHARACTERISATION AND SINTERING OF NANOPHASE HYDROXYAPATIITE SYNTHESIZED BY A SPECIES OF SERRATIA	**OR-59**	15:05-15:20
5	L.Pramatarova, M.Dimitrova, E.Pecheva	HYDROXYAPATITE/DETONATION GENERATED NANODIMOND COMPOSITES: A NOVEL SURFACE MODIFICATION TO EXTEND IMPLANTS LIFETIME	**OR-60**	15:20-15:35

April 4
Biomaterials & technologies II

6	I.Vavra, F.Čiampor, J.Rosocha, M.Timko	Distribution of magnetite nanoparticles (used for targeted drug transport) in the cells of bone marrow	**OR-61**	15:50-16:05
7	A.Pavlenko, N.Mironova-Ulmane, M.Polakov	INVESTIGATION OF EPR SIGNALS ON TOOTH ENAMEL	**OR-62**	16:05-16:20
8	L.Berzina-Cimdina, A.Skagers	Calcium Phosphate Bioceramics and Gained Expiere	**OR-63**	16:20-16:35
9	W.Mróz	Deposition of hydroxyapatite thin films by ArF laser system at different substrate temperatures	**OR-64**	16:35-16:50

April 4
Plenary Session II

1	M.Van de Voorde	PERSPECTIVES OF FUNCTIONAL MATERIALS AND NANOTECHNOLOGY: FUTURE RESEARCH NEEDS	**PI-2**	17:00-17:30

		CLOSING		17:30-17:45