

FM&NT-2009 PROGRAMME

Tuesday, March 31

Workshop

„Structure effects of the electrical, magnetic, barrier and mechanical properties of the polymer nanocomposites”

organized by COST Action MP0701 “Composites with Novel Functional and Structural Properties by Nanoscale Materials (Nano Composite Materials-NCM)”.

HALL 1

Registration

9:00 – 9:20

Chair:

1	M.Kalnins	OPENING OF THE COST WORKSHOP	9:20 – 9:30
2	L.Ribickis	OFFICIAL SPEECH BY VICE RECTOR FOR RESEARCH OF RIGA TECHNICAL UNIVERSITY	9:30 – 9:40
3		OFFICIAL SPEECH BY REPRESENTATIVE FROM THE MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF LATVIA	9:40 – 9:50
4	E.Kny	COST ACTION MP0701 ON POLYMER NANOCOMPOSITES, STATUS AND OUTLOOK	9:50 – 10:05
5	A.Sternberg	FUNCTIONAL MATERIALS AND COMPOSITES - A PRIORITY ISSUES OF LATVIAN RESEARCH PROGRAMME IN MATERIALS CIENCE	10:05 – 10:25
6	M.Stoyanova	UPDATE ON COST MP0701 & THE COST INSTRUMENTS	10:25 – 10:45
7	E.M.Shishonok, S.V.Leonchik	CUBIC BORON NITRIDE DOPED WITH RARE EARTH ELEMENTS AS ADVANCED LIGHT EMITTING MATERIAL	10:45 – 11:05
8	I.Safarik, M.Safarikova	PARAMETERS INFLUENCING PROPERTIES OF MAGNETICALLY RESPONSIVE COMPOSITES	11:05 – 11:25

Coffee Break

11:25 – 11:45

Chair:

1	T.Ciach	FUNCTIONAL NANO-COATINGS FOR MEDICAL DEVICES	11:45 – 12:05
2	A.Uygun	CONDUCTING POLYMERS IN THE PRESENCE OF SURFACTANTS	12:05 – 12:20
3	B.Kalska-Szostko, E.Brancewicz, W.Olszewski, P.Mazalski	NANOMATERIALS ELECTROCHEMICALLY PREPARED	12:20 – 12:35
4	M.Paajanen, J.Pelto, M.Karttunen, M.Takala	DIELECTRIC NANOCOMPOUNDS PRODUCED BY MELT STATE PROCESSING	12:35 – 12:50
5	K.Baltakys, I.Lukosiute, A.Baltusnikas	INFLUENCE OF SYNTHESIS CONDITIONS ON THE CRYSTAL STRUCTURE OF GYROLITE	12:50 – 13:05

Lunch

13:05 – 13:55

Chair:

1	R.Valek, J.Hell	INFLUENCE OF MONTMORILLONITE FILLER ON CREEP AND IMPACT BEHAVIOUR OF PP AND PA6	13:55 – 14:10
2	L.Oksuz	PLASMA SYSTEMS IN NANOCOMPOSITE PRODUCTION	14:10 – 14:25
3	M.Olaru, G.David, G.Lisa, S.Ibanescu	PROPERTIES DEPENDENCE ON COMPOSITION IN POLYURETHANE/MONTMORILLONITE NANOCOMPOSITES	14:25 – 14:40
4	I.Lukosiute, K.Baltakys, A.Baltusnikas	ORGANOPHILIC MODIFICATION OF NANO SIZED GYROLITE	14:40 – 14:55
5	M.Giordano, E.Antonucci, M.Zarrelli,	ELASTIC AND FUNCTIONAL PROPERTIES OF CARBON NANOTUBES/EPOXY MATRIX NANOCOMPOSITES	14:55 – 15:10

Coffee Break

15:10 – 15:30

Chair:

1	C.Larosa, E.Stura, R.Eggenhoffner, C.Nicolini	ACID VAPOR SENSORS BASED ON 2,5 –DIMETHYLANILINE	15:30 – 15:45
2	F.Carosio, A.Fina, G.Camino, M.Coisson, R.Paula Turcu, I.Craciunescu, L.Vekas	STRUCTURE EFFECTS ON THE ELECTRICAL, MAGNETIC, BARRIER AND MECHANICAL PROPERTIES OF THE POLYMER NANO-COMPOSITES	15:45 – 16:00
3	I.Zalite, J.Zicans, R.Merijs Meri	SYNTHESIS OF MINERAL'S NANOPARTICLES FOR OBTAINING OF POLYMER-COMPOSITES	16:00 – 16:15
4	R.Merijs Meri, J.Zicans, M.Kalnins	MANUFACTURING AND PROPERTIES OF NANOCOMPOSITES BASED ON BIODEGRADABLE AND SYNTHETIC INGREDIENTS	16:15 – 16:30

Concluding remarks

16:30 – 16:40

Registration

17:00 – 19:00

Welcome party

19:00 – 20:00

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Wednesday, April 1

Registration

8:30 – 9:00

Opening, Welcome

HALL 1

1	A.Sternberg	CHAIRMAN OF THE CONFERENCE	9:00 – 9:05
2	M.Auzinsh	OFFICIAL SPEECH BY RECTOR OF UNIVERSITY OF LATVIA	9:05 – 9:15

Introductory Session

HALL 1

Chair:A.Sternberg

1	<u>W.Kleemann</u> , P.Borisov	MULTIFERROIC AND MAGNETOELECTRIC MATERIALS FOR SPINTRONIC APPLICATIONS	PI-1	9:15 – 9:45
2	<u>E.Nõmmiste</u> , S.Urpelainen, M.Huttula, T.Balasubramanian, R.Sankari, E.Kukk, S.Aksela, B.Jensen, U.Johansson, R.Nyholm, H.Aksela	NEW HIGH PERFORMANCE BRANCH-LINE FOR VUV PHOTON ENERGY RANGE BEAMLINE AT MAX-III STORAGE RING	PI-2	9:45 – 10:15

Coffee Break

10:15 – 10:40

New Trends and Opportunities in Material Sciences

HALL 1

Chair:I.Muzikante

1	<u>P.Zilgalvis</u>	RECOMMENDATION TO THE MEMBER STATES ON A CODE OF CONDUCT FOR RESPONSIBLE NANOSCIENCES AND NANOTECHNOLOGIES RESEARCH	Inv-1	10:40 – 11:00
2	<u>S.Sipila</u> , M.Kiiskinen	MATERA+ CALL 2009 - NEW OPPORTUNITIES FOR EUROPEAN R&D ON MATERIALS	Inv-2	11:00 – 11:20
3	<u>M.Stoyanova</u>	COST SUPPORTING COOPERATION AMONG SCIENTISTS AND RESEARCHERS ACROSS EUROPE	Inv-3	11:20 – 11:40
4	P.N.Lirsac, <u>Y.Dekhlyar</u>	EURONANOMED TRANSNATIONAL PROGRAM	E-1	11:40 – 12:00
5	M.Bundule, <u>D.Tirzite</u>	EUREKA AND EUROSTARS – SUPPORT INSTRUMENTS FOR TECHNOLOGY DEVELOPMENT	E-2	12:00 – 12:20
6	<u>S.Martisune</u>	EUROPEAN RESEARCH AREA FOR A GREATER BENEFIT OF RESEARCH IN EUROPE	E-3	12:20 – 12:40

Lunch

12:40 – 14:00

Ferroelectric and Magnetic Materials I**HALL 1**

Chair: W. Kleemann

1	<u>T.Ogawa</u>	EVALUATION OF FERROELECTRIC DOMAINS BY POLING FIELD	Inv-4	14:00 – 14:20
2	<u>I.Stolichnov</u>	FERROELECTRIC CONTROL OF FERROMAGNETISM IN SEMICONDUCTORS: LOW VOLTAGE NON-VOLATILE FERROELECTRIC FET	Inv-5	14:20 – 14:40
3	<u>M.Tjunina, M.Plekh, J.Levoska</u>	DIPOLAR GLASS STATE IN $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ FILMS	Inv-6	14:40 – 15:00
4	<u>N.E.Sherstyuk, N.A.Ilyin, V.M.Muhortov, A.S.Sigov</u>	FERROELECTRIC PROPERTIES OF MULTIFERROIC BNFO FILMS STUDIED BY OPTICAL SECOND HARMONIC GENERATION	F-1	15:00 – 15:15
5	<u>G.Suchaneck, O.Volkonskiy, Z.Hubicka, A.Dejneka, L.Jastrabik, B.Adolphi, M.Bertram, G.Gerlach</u>	PREPARATION OF PZT THIN FILMS ON COPPER-COATED KAPTON FOILS WITH TITANIA SEEDING LAYER	F-2	15:15 – 15:30
6	<u>L.A.Delimova, V.S.Yuferev</u>	EFFECT OF CHARGED DOPING IMPURITY ON DEPOLARIZING FIELD AND POLARIZATION IN FERROELECTRIC POLYCRYSTALLINE $\text{Pb}(\text{ZrTi})\text{O}_3$ FILM	F-3	15:30 – 15:45

Spectroscopy and Optical Properties I**HALL 2**

Chair: M. Kirm

1	<u>W.Lojkowski, T.Chudoba, D.Hreniak, P.Gluchowski, W.Strek, V.Pankratow, D.Millers, L.Grigorjeva</u>	TRANSPARENT NANOCRYSTALLINE YAG CERAMICS AND THEIR OPTICAL PROPERTIES	S-1	14:00 – 14:15
2	<u>J.D.Fidelus, W.Lojkowski, D.Millers, L.Grigorjeva, K.Smits</u>	PROSPECTIVE MEMORY OXYGEN PRESSURE SENSORS BASED ON NANOCRYSTALLINE ZIRCONIA	S-2	14:15 – 14:30
3	<u>K.Smits, L.Grigorjeva, D.Millers, A.Sarakovskis, A.Opalinska, J.D.Fidelus, W.Lojkowski</u>	EUROPIUM DOPED ZIRCONIA LUMINESCENCE	S-3	14:30 – 14:45
4	<u>A.Sarakovskis, J.Grube, M.Springis</u>	SYNTHESIS AND “UP-CONVERSION” LUMINESCENCE PROPERTIES OF $\text{NaLaF}_4:\text{Er}^{3+}$	S-4	14:45 – 15:00
5	<u>K.Kunnus, V.P.Denks, E.Feldbach, M.Kirm</u>	CONFINED ELECTRONS AND LUMINESCENCE OF $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$	S-5	15:00 – 15:15
6	<u>E.Toldsepp, T.Avarmaa, V.P.Denks, E.Feldbach, M.Kirm, A.Maaroos, H.Mandar</u>	SYNTHESIS AND LUMINESCENCE PROPERTIES OF Ce^{3+} DOPED NANOPOROUS $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ CERAMICS	S-6	15:15 – 15:30
7	<u>S.Green, C.G.Granqvist, G.A.Niklasson</u>	ELECTROCHROMISM IN MIXED NICKEL TUNGSTEN OXIDE	S-7	15:30 – 15:45

Coffee Break

15:45 – 16:10

Chair: M. Springis

POSTER Session

16:10 – 18:00

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Thursday, April 2

Spectroscopy and Optical Properties II

HALL 1

Chair: D. Millers

1	<u>M.Kirm</u>	LUMINESCENCE SPECTROSCOPY OF SOLIDS UNDER SYNCHROTON AND FREE ELECTRON LASER RADIATION	Inv-7	9:00 – 9:20
2	<u>E.M.Shishonok</u>	LUMINESCENCE OF CUBIC BORON NITRIDE DOPED BY RARE EARTH ELEMENTS	S-8	9:20 – 9:35
3	<u>V.Trepakov</u> , A.Dejneka, D.Chvostova, M.Tjunina, J.Narkilahti, J.Levoska, L.Jastrabik	OPTICAL SPECTRA OF TENSILE STRAINED STRONCIUM TITANATE ULTRA-THIN FILMS	S-9	9:35 – 9:50
4	A.Dejneka, V.Trepakov, <u>A.Lynnyk</u> , P.Markovin, L.Jastrabik	PROPER NEGATIVE THERMO-OPTIC EFFECT AND “SOFT ELECTRONIC MODE” IN STRONTIUM TITANATE.	S-10	9:50 – 10:05
5	<u>L.Trinkler</u> , B.Berzina, D.Jakimovica, J.Grabis, I.Steins	UV LIGHT INDUCED LUMINESCENCE PROCESSES IN Al ₂ O ₃ BULK AND NANOSIZE POWDERS	S-11	10:05 – 10:20
6	<u>A.Ozols</u> , V.Kokars, P.Augustovs, K.Traskovskis, G.Mezinskis, A.Pludons	GREEN LIGHT HOLOGRAPHIC RECORDING IN DIFFERENT GLASSY AZOCOMPOUNDS	S-12	10:20 – 10:35
7	<u>J.Teteris</u>	PHOTOINDUCED MASS TRANSPORT IN SOFT MATERIALS	S-13	10:35 – 10:50

Ferroelectric and Magnetic Materials II

HALL 2

Chair: I. Stolichnov

1	<u>J.Banys</u>	DIELECTRIC SPECTROSCOPY OF RELAXOR CERAMICS AND DIPOLAR GLASSES	F-4	9:00 – 9:15
2	<u>E.Buixaderas</u> , V.Bovtun, M.Savinov, D.Nuzhnyy, P.Vaněk, I.Gregora, Z.Shen	DIELECTRIC BEHAVIOUR OF K _{0.5} Na _{0.5} NbO ₃ CERAMICS: EFFECT OF THE GRAIN SIZE	F-5	9:15 – 9:30
3	<u>M.Dunce</u> , M.Antonova, E.Birks, M.Kundzinsch, A.Sternberg	PHASE TRANSITIONS IN MODIFIED Na _{1/2} Bi _{1/2} TiO ₃ -SrTiO ₃ SOLID SOLUTIONS	F-6	9:30 – 9:45
4	<u>F.Carosio</u> , A.Fina, G.Camino, M.Coisson, R.P.Turcu, I.Craciunescu, L.Vekas	POLYMER MICRO- AND NANO-COMPOSITES WITH TAILORED MAGNETIC BEHAVIOUR	F-7	9:45 – 10:00
5	<u>J.Grabis</u> , I.Steins, A.Krumina, N.Zaporina, M.Majorovs	PREPARATION OF FERRITE NANOPARTICLES BY GAS PHASE SYNTHESIS	F-8	10:00 – 10:15
6	<u>A.Dreimane</u> , G.Kronkalns, M.Maiorov	PREPARATION OF SPINEL-TYPE FERRITE NANOPARTICLES BY THE COPRECIPITATION METHOD FOR MAGNETIC FLUIDS	F-9	10:30 – 10:45

Coffee Break

10:50 – 11:15

Nanostructuring: Theory and Modelling I**HALL 1**

Chair: J. Banys

1	<u>R.A.Evarestov</u> , A.Kalinko, A.Kuzmin, M.Losev, J.Purans	FIRST-PRINCIPLES LCAO CALCULATIONS ON 5d TRANSITION METAL OXIDES: ELECTRONIC AND PHONON PROPERTIES	Inv-8	11:15 – 11:35
2	<u>N.E.Christensen</u> , A.Svane, R.Laskowski	THE TRANSPARENT p-CONDUCTOR CuAlO ₂ : DFT/LDA AND BEYOND	Inv-9	11:35 – 11:55
3	<u>A.Bandura</u> , R.Evarestov, E.Blokhin	HYBRID HF-DFT MODELLING OF WATER ADSORPTION ON (001) SURFACE OF ORTHORHOMBIC AND CUBIC SrHfO ₃	T-1	11:55 – 12:10
4	<u>S.Piskunov</u> , E.Heifets, E.Kotomin, T.Jacob, E.Spohr	OXYGEN ADSORPTION ON LSM NANOFILMS UNDER SOFC OPERATING p/T CONDITIONS: QUANTUM-CHEMICAL DFT SIMULATIONS	T-2	12:10 – 12:25
5	<u>E.Klotins</u>	LOCALIZATION TRANSITION AND EMERGENCE OF POLAR NANOREGIONS IN RELAXOR FERROELECTRICS	T-3	12:25 – 12:40

Spectroscopy and Optical Properties III**HALL 2**

Chair: V. Trepakov

1	<u>R.Zabels</u> , F.Muktepavela, L.Grigorjeva, E.Tamanis, M.Mishels- Piesins	NANOINDENTATION AND PHOTOLUMINESCENCE CHARACTERISATION OF ZnO THIN FILMS AND SINGLE CRYSTALS	S-14	11:15 – 11:30
2	<u>N.Mironova-Ulmane</u> , A.Kuzmin, J.Grabis, I.Sildos, M.Pars, V.I.Voronin	PHONON-MAGNON COUPLING IN NANOSIZED NiO	S-15	11:30 – 11:45
3	<u>R.Parna</u> , E.Nommiste, P.Jussila, O.Tarvainen, M.Hirsimaki, M.Valden	X-RAY ABSORPTION INVESTIGATIONS OF 1,3,5- BENZENETRICARBOXYLIC ACID ON Cu (100) SURFACE	S-16	11:45 – 12:00
4	<u>J.Kleperis</u> , L.Grinberga, J.Klavins	HYDROGEN INSERTION COMPOUNDS – COMPARATIVE ANALYSIS FOR STORAGE APPLICATIONS	S-17	12:00 – 12:15

Lunch

12:40 – 14:00

Polymers and Biomaterials I**HALL 1**

Chair: J. Zicans

1	<u>A.Kovalovs</u> , <u>S.Gluhihs</u> , E.Barkanov	INTERACTION OF MACRO FIBER COMPOSITE (MFC) WITH STRUCTURES	P-1	14:00 – 14:20
2	I.Bordianu, <u>M.Olaru</u> , C.Cotofana, M.Aflori, B.C.Simionescu	SYNTHESIS AND CHARACTERIZATION OF SILSESQUIOXANE-BASED HYBRID COMPOSITES BEARING VINYL AND METHACRYLATE UNITS	P-2	14:20 – 14:35
3	<u>L.Oksuz</u> , A.Gulec, A.Uygun, K.Ozaltin, K.Akkaya	ATMOSPHERIC PRESSURE PLASMA POLYMERIZATION AND THIN FILM COATING	P-3	14:35 – 14:50
4	<u>I.Muzikante</u> , I.Bidermane, E.Fonavs, D.Gustina, V.Kampars, J.Sipols	HOST-GUEST POLYMER FILMS OF LOW MOLECULAR POLAR ORGANIC MOLECULES. STRUCTURE AND PHOTOELECTRICAL PROPERTIES	P-4	14:50 – 15:05
5	<u>T.Ciach</u>	NANO AND MICRO PARTICLES AND FIBERS PRODUCTION BY ELECTROSTATIC MEANS	P-5	15:05 – 15:20

Nanostructuring: Theory and Modelling II**HALL 2**

Chair: N.E.Christensen

1	<u>R.I.Eglitis</u> , D.Vanderbilt	ADVANCED <i>AB INITIO</i> CALCULATIONS OF SrTiO ₃ , BaTiO ₃ , PbTiO ₃ , BaZrO ₃ AND CaTiO ₃ (001) AND (011) NANOSURFACES	T-4	14:00 – 14:15
2	<u>M.Rutkis</u> , A.Jurgis	COMPUTER MODELING OF EXTERNAL ELECTRICAL FIELD CHROMOPHORE POLING	T-5	14:15 – 14:30
3	<u>Y.Shunin</u> , Y.Zhukovskii, S.Bellucci	<i>AB-INITIO</i> CALCULATIONS OF ELECTRONIC PROPERTIES AND CONDUCTIVITY OF CARBON NANOTUBES AND CNT-Ni INTERCONNECTS IN THE EFFECTIVE MEDIA APPROACH	T-6	14:30 – 14:45
4	<u>E.K.Shidlovskaya</u>	EMBEDDED MOLECULAR CLUSTER MODEL FOR NANOSYSTEMS	T-7	14:45 – 15:00

Excursion & Conference Dinner in Restaurant "LIDO"
76 Krasta St.

16:30 – 23:00

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Friday, April 3

Nanostructures: Technologies & Characterisation & Application I

HALL 1

Chair: W. Lojkowski

1	A. Bassano, M.T. Buscaglia, V. Buscaglia, <u>P. Nanni</u>	PARTICLES SIZE AND MORPHOLOGY CONTROL OF PEROVSKITES OXIDES NANOPOWDERS FOR NANOSTRUCTURED MATERIALS	Inv-11	9:00 – 9:20
2	<u>B. Kalska-Szostko</u> , E. Beancewicz, W. Olszewski, P. Mazalski	NANOMATERIALS ELECTROCHEMICALLY PREPARED	N-1	9:20 – 9:35
3	<u>M.V. Makarova</u>	PREPARATION OF STRONTIUM TITANATES NANOPARTICLES WITH SOFT CHEMISTRY METHODS	N-2	9:35 – 9:50
4			N-3	9:50 – 10:05
5	P. Hidalgo, E. Liberti, Y. Rodriguez-Lazcano, B. Méndez, <u>J. Piqueras</u>	GROWTH AND CHARACTERIZATION OF DOPED GERMANIUM DIOXIDE NANOWIRES	N-4	10:05 – 10:20
6	<u>D. Isakov</u> , A. Martinez, I. Bdikin, T. Dekola, E. de Matos Gomes, B. Almeida	SYNTHESIS AND CHARACTERIZATION OF TGS NANOFIBERS PRODUCED BY ELECTROSPINNING	N-5	10:20 – 10:35
7	<u>A. Petruhins</u> , B. Polyakov, E. Tamanis, I. Tale	FABRICATION OF NANOCRYSTALLINE LEAD SULPHIDE (PbS) THIN FILMS USING PULSED LASER DEPOSITION	N-6	10:35 – 10:50

Polymers and Biomaterials II

HALL 2

Chair: M. Rutkis

1	<u>R. Valek</u> , J. Hell	INFLUENCE OF MONTMORILLONITE FILLER ON CREEP AND IMPACT BEHAVIOUR OF PP AND PA6	P-6	9:00 – 9:15
2	<u>N. Lilichenko</u> , M. Kalnins, J. Zicans, T. Ivanova, R. Merijs Meri, A. Dzene, R. Maksimovs	MECHANICAL AND SORPTION PROPERTIES OF THE ORGANICALLY MODIFIED CLAY REINFORCED BIODEGRADABLE STARCH NANOCOMPOSITES	P-7	9:15 – 9:30
3	<u>I. Safarik</u> , M. Safarikova	MAGNETICALLY RESPONSIVE COMPOSITE MATERIALS FOR BIOAPPLICATIONS	P-8	9:30 – 9:45
4	<u>E. Pecheva</u> , L. Pramatarova, P. Montgomery, D. Montaner, P. Laquerriere, J.P. Stoquert, L. Jacomine, E. Palcevskis	SOLID SURFACE MODIFICATION BY GROWTH OF NANODIAMOND/HYDROXYAPATITE COMPOSITE LAYERS	P-9	9:45 – 10:00
5	<u>D. Loca</u> , L. Berzina-Cimdina, J. Locs	MICROENCAPSULATION AND CHARACTERIZATION OF HIGHLY WATER SOLUBLE PHARMACEUTICALS	P-10	10:00 – 10:15
6	<u>J. Locs</u> , L. Berzina-Cimdina, A. Zhurish, D. Vempere, A. Sica	DEVELOPMENT OF POROUS BIOMORPHIC SILICON CARBIDE CERAMICS	P-11	10:15 – 10:30
7	<u>A. Stunda</u> , I. Brante, A. Reimis, L. Berzina-Cimdina	INVESTIGATION OF PHASES OF SODIUM AND NIOBIUM CONTAINING CALCIUM PHOSPHATE GLASS-CERAMICS	P-12	10:30 – 10:45

Coffee Break

10:50 – 11:15

Nanostructures: Technologies & Characterisation & Application II**HALL 1**

Chair: P. Nanni

1	<u>Yu.F.Zhukovskii</u> , V.Kashcheyevs, S.Piskunov, Yu.N.Shunin, E.A.Kotomin	PARTICIPATION OF ISSP GROUP IN THE EC FP7 PROJECT: CARBON NANOTUBE TECHNOLOGY FOR HIGH-SPEED NEXT-GENERATION NANO-INTERCONNECTS (<i>CATHERINE</i>)	Inv-12	11:15 – 11:35
2	<u>D.Erts</u> , J.Andzane, M.Studers, J.D.Holmes	NANOELECTROMECHANICAL DEVICES	N-7	11:35 – 11:50
3	<u>B.Polyakov</u> , J.Sipols, A.Kuzmin, I.Muzikante, I.Tale	KELVIN PROBE AFM FOR INVESTIGATIONS OF NANOSTRUCTURES	N-8	11:50 – 12:05
4	I.Manika, <u>J.Maniks</u> , R.Zabels, J.Gabrusenoks, M.Tomut, K.Schwartz	NANOINDENTATION STUDY OF GRAPHITE IRRADIATED WITH SWIFT 238U IONS	N-9	12:05 – 12:20
5	<u>Y.Dekhtyar</u> , A.Kachanovska, A.Patmalnieks, P.Pumpens, R.Renhofa, M.Romanova	INORGANIC NANOPARTICLE – MOLECULAR COMPLEX (CAPSID) ASSEMBLY	N-10	12:20 – 12:35

Polymers and Biomaterials III**HALL 2**

Chair: L. Berzina-Cimdina

1	<u>Y.Dekhtyar</u> , V.Bystrov, E.Paramonova, N.Bystrova, A.Patmalnieks, N.Polyaka	SURFACE CHARGES AT THE HYDROXYAPATITE NANOPARTICLES	P-13	11:15 – 11:30
2	<u>G.Sakale</u> , M.Knite, V.Tupureina, V.Teters	PNCC ELECTRIC RESISTANCE VERSUS ORGANIC SOLVENTS VAPOUR CHARACTERISTICS	P-14	11:30 – 11:45
3	<u>J.Zavickis</u> , M.Knite, G.Malefan, V.Teteris	THE PIEZORESISTIVE BEHAVIOR OF POLYISOPRENE – NANOSTRUCTURED CARBON COMPOSITE AT DIFFERENT LEVELS OF VULCANIZATION	P-15	11:45 – 12:00

Lunch

12:40 – 14:00

Closing Session**HALL 1**

Chair: A. Sternberg

1	<u>H.Schober</u>	OPPORTUNITIES FOR STUDYING ADVANCED MATERIALS WITH NEUTRONS AT THE ILL	PI-3	14:00 – 14:30
2	<u>S.H.Lau</u> , H.Chang, M.Feser, W.Yun	NON INVASIVE 3D MULTISCALE IMAGING OF MICRO TO NANOSTRUCTURED MATERIALS AND SENSORS	PI-4	14:30 – 15:00
3.	<u>A.Sternberg</u>	CLOSING REMARKS		15:00 – 15:15

Good Bye Coffee

15:15 – 16:00

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Wednesday, April 1

Chair: M. Springis

POSTER Session

16:10 – 18:00

<u>A.Kalinko</u> , R.A.Evarestov, <u>A.Kuzmin</u>	FIRST PRINCIPLES LCAO CALCULATIONS OF TUNGSTATES $MeWO_4$ ($Me = Ca, Mg, Zn$)	Po-1
<u>D.Bocharov</u> , D.Gryaznov, Y.Zhukovskii, E.Kotomin	PERFECT AND DEFECTIVE (001) SURFACE OF URANIUM NITRIDE: <i>AB INITIO</i> CALCULATIONS.	Po-2
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