15th INTERNATIONAL CONFERENCE-SCHOOL

"Advanced Materials and Technologies"

27-31 August 2013, Palanga, Lithuania

Programme

August 27, Tuesday

14:00 – 20:00 Arrival and registration

August 28, Wednesday *Chairmen – **Sigitas Tamulevičius, Ashok Vaseashta***

8.30 - 9.00 Registration

9.00 - 9.15 Opening

9.15 - 10.15 Ashok Vaseashta (Institute for Advanced Sciences Convergence & Int'l Clean Water Institute, USA) **Nanomaterials for Water Borne Contaminants Sensing/Detection and Mitigation for Safety, Security, and Sustainability**

10.15 - 11.00 Thomas Strunskus (Christian-Albrechts University at Kiel, Germany) **Nanocomposites for Functional Applications**

11.00 - 11.20 Coffee break

11.20 - 12.20 Serghej Prischepa (Belarusian State University of Informatics and RadioElectronics, Belarus) **Superconducting Phase Transition in Superconductor/Ferromagnet Heterostructures**

12.20 - 13.05 Anatolie Sidorenko (Institute of Electronic Engineering and Nanotechnologies ASM, Moldova) **Superconducting Nano-Structures Based on Nb and Ferromagnetic Cuni Alloy for Spintronics**

13.05 - 18.00 Break

18:00 – 22:00 Discussions and welcome party

August 29, Thursday *Chairmen – **Morten Madsen, Žilvinas Rinkevičius***

8:30 – 9:30 Registration

9.00 - 9.45 Bengt Gunnar Svensson (University of Oslo, Norway) **Semiconducting Oxides for Energy Technology**

9.45 - 10.45 Hans Hagemann (University of Geneva, Switzerland) **Experimental and Theoretical Studies of Borohydrides as Potential Hydrogen Storage Materials**

10.45 - 11.30 Mariusz Gajda (Institute of Physics, PAN, Poland) **Ultra Cold Quantum Gases - Frontiers in Atomic Physics**

11.30 - 11.50 Coffee break

11.50 - 12.35 Vladimir Antonov (Royal Holloway University of London, UK) **Terahertz Technology for Material Characterization**

12.35 - 13.20 Jurgis Barkauskas (Vilnius University, Lithuania) **Carbonaceous Nanomaterials**

13.20 - 16.00 Break

16:00 – 22:00 Excursion

August 30, Friday *Chairmen – **Hans Hagemann, Bengt Gunnar Svensson***

8.30 - 9.00 **Registration**

9.00 - 9.45 Morten Madsen (University of Southern Denmark, Denmark) **Organic Solar Cells**

9.45 - 10.30 Saulius Grigalevičius (Kaunas University of Technology, Lithuania) **Organic Electro-Active Materials for Light Emitting Diodes**

10.30 -11.15 Žilvinas Rinkevičius (KTH Royal Institute of Technology, Sweden) **Quantum Chemical Modeling of Dye Synthesized Solar Cells**

11.15 -11.35 **Coffee break**

11.35 -12.20 Guntars Vaivars (University of Latvia, Latvia) **Composite Polymer Membranes for Alternative Energy Devices**

12.20 -13.05 Arūnas Ramanavičius (Vilnius University, Lithuania) **Conducting Polymers in Nanotechnological Devices**

13.05 -16.00 **Break**

16:00 – 18:00 **Poster Session** (*Chairmen – **Arūnas Ramanavičius, Tomas Tamulevičius***)

August 31, Saturday *Chairman – **Guntars Vaivars***

8:30 – 9:15 Thomas Strunskus (Christian-Albrechts University at Kiel, Germany) **Near-Edge-X-Ray Absorption Fine Structure Spectroscopy (NEXAFS) for Materials and Surface Analysis**

9:15 – 10:00 Kaupo Kukli (University of Tartu, Estonia) **Materials for Nanoelectronics**

10:00 – 10:45 Simas Šakirzanovas (Vilnius University, Lithuania) **Novel $Sm^{2+/3+}$ Phospors as Luminescence Converter for Near UV Radiation**

10:45 – 11:30 Ivo Leito (Tartu University, Estonia) **Superacid Derivatives in Your Pocket?**

11.30 -11.45 **Closing remarks**

Poster Session. August 30, Friday 16:00 – 18:00

	METHODS OF SURFACE ANALYSIS
P1	N.Y. Klymenko, E.A. Novikova, B.G. Mischanchuk, N.P. Galagan *Interaction of Aminosugars with the Surface of Ultrafine Oxides Modified by Albumin and Properties of Composites on their Basis*
P2	V.M. Fitio, I.Y. Yaremchuk, G.A. Petrovska *Novel Method for Broadband Antireflection of Boundary Two Media by Multilayer Coating*
P3	H.A. Petrovska, T.O. Protalchuk, Y.V. Bobitski *Measurement Method of Absorption and Scattering in the Media with Nanoparticles*
P4	L. Sidorenko, S. Sidorenko, I. Sidorenko *Behavior Pattern Recognition in TRUST iso Critical Infrastructure*
P5	G. Griciute, R. Bliudzius *Study on the Microstructure and Water Absorption Changes of Exterior Thin-Layer Polymer Renders During Natural and Artificial Ageing*
P6	S. Fomins, M. Ozoliņš *Hyperspectral Imaging for Printed Matter, Construction Materials and Dyes Quality Assessment*
P7	I. Balčiūnaitė, A. Kleišmantas *Chemical Composition and Gemology Pecurities of Garnet Groups Rare Minerals*
P8	V. Vendina, J. Pudnika, A. Katashev, Y. Dekhtyar *Effect of Environment on Measurements of Glass Surface Potential by Kelvin Probe Force Microscopy*
P9	A. Užupis, L. Baležentienė *Infrared Thermography Application for Building Defects Detection and Evaluation*
P10	V. Kalasauskas, L. Augulis, L. Puodžiukynas, V. Narbutas *Thermographic Methods in Physical Research*
P11	T. Juknius, T. Tamulevičius, I. Gražulevičiūtė, I. Klimienė, A.P. Matusevičius, S. Tamulevičius *In-situ Measurements of Bacteria Resistance to Antimicrobial Agents Employing Refractometric Method Based on Sub-Wavelength Diffraction Grating*
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P13	G. Grygorova, V. Klochkov, O. Sedyh, Y. Malyukin *Colloidal $ReVO_4:Eu^{3+}$ (Re=La, Gd, Y, Sm) Nanoparticles: Synthesis, Characterization and Applications*
P14	R.P. Pogorilyi, I.V. Melnyk, Y.L. Zub, A. Kareiva, A. Beganskiene *Immobilization of Urease on Spherical Hybrid Polysiloxane Materials*

P15	M.V. Galaburda, M.A. Nazarkovsky, V.M. Gun'ko, V.M. Bogatyrov, O.I. Oranska *Synthesis, Morphological and Structural Characteristics of $CoFe_2O_4/TiO_2/SiO_2$ Nanocomposites*
P16	L.V. Nosach, D.S. Savchenko, E.F. Voronin *High-Disperse Silica with Nanosilver*
P17	I.M. Trofymchuk, L.A. Belyakova *Incorporation of β-Cyclodextrin into Silica in the Presence of 3-(chloropropyl)triethoxysilane*
P18	A.J. Janavičius, A. Mekys, R. Purlys, R. Rinkūnas *Si-C Bonding in Thin C Films on Cz-Silicon Irradiated with X-Rays*
P19	V.M. Fitio, V.V. Romakh, Y.V. Bobitski *Numerical Method for Analysis of Waveguide Modes in Planar Gradient Waveguides*
P20	A. Kalpakovaitė, D. Dobrovolskas, M. Dmukauskas, T. Grinys *Optical Response of Metal Nano-Islands Fabricated on GaN Based Structures*
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P22	V. Gavryushin *Interdiffusion Influence to the properties of Asymmetric Double Quantum Wells*
P23	A.V. Nagornyi, V.I. Petrenko, M.V. Avdeev, L. Almasy, L.A. Bulavin, L. Rosta, V.L. Aksenov *Structural Investigations of Nonpolar Ferrofluids with Excess of Stabilizer Molecules by Small-Angle Neutron Scattering*
P24	P. Naujalis, M. Petkelytė, D. Rutkauskas *Surface Preparation for Restriction Endonucleases Reactions in Single Molecule Spectroscopy*
P25	A. Dadashev, V. Tertykh, E. Yanovska, K. Yanova *Complexing and Ion-Exchanging Properties of Guanidine Hydrochloride Chemically Bound with Silica*
P26	D. Virganavičius, T. Tamulevičius, S. Tamulevičius *Surface Patterning of DLC Films Using Holographic Lithography Technique*
P27	D. Bartkevičiūtė, J. Puišo *Synthesis of Silver Nanocomposites by using Viburnum Opulus Berries Juice*
P28	A. Jurkevičiūtė, T. Tamulevičius, S. Tamulevičius *Application of 2D FFT for Characterization of Spatial Distribution of Diffraction Patterns from Two-Dimensional Periodic Structures Fabricated by Holographic Lithography*
P29	G. Bergs, U. Malinovskis, R. Poplausks, I. Apsite, J. Prikulis, D. Erts *Polarization Dependent Visible Light Scattering by Dense Disordered Silver Nanoparticle Arrays*
P30	I. Apsite, R. Poplausks, U. Malinovskis, J. Prikulis, G. Bergs, D. Erts *Preparation of Short Range Ordered Nanodot Arrays using Ultra-Thin AAO Membranes*
P31	L. Mikoliunaite, A. Popov, J. Voronovic, A. Ramanaviciene, A. Ramanavicius *Chemical and Enzymatic Sythesis of Polypyrrole and Polyaniline Nanoparticles*
P32	L.M. Chepyga, L.M. Kulikov, L.G. Akselrud *Graphene-Like Nanostructures of 2H-$Nb_{1+y}Se_2$*
P33	A. Čiegis, Š. Meškinis *Effects of Ultraviolet Irradiation on Optical and Electrical Properties of Thin Films Containing Silver*
P34	R. Celiešiūtė, T. Venckus, R. Pauliukaite *Graphene-Oxide-Chitosan Film as a Base for Ascorbate Sensing: Investigation by Electrochemical Impedance Spectroscopy*
P35	J. Baniukevic, I.H. Boyaci, A. Ramanavicius, A. Ramanaviciene *Comparison of Different Surface Immobilisation Methods Used in Immunosensors Design against Bovine Leukaemia Virus*
P36	J. Markiewicz, E. Tyczkowska-Sieroń, R. Kapica, M. Pieczka, J. Tyczkowski *Effects of Atmospheric Pressure Plasma on the Micro-Organisms on an Example of Candida Albicans*
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P38	A. Ivanauskas, R. Ivanauskas, L. Samardokas, I. Ancutienė *Study of Formation and Phase Composition of Thallium Selenide Layers on Polycaproamide*
P39	L. Sakalauskienė, J. Rūkšnatė, J. Voronovič, A.G. Lobanok, T.V. Semashko, R.V. Mikhailova, A. Ramanavičienė, A. Ramanavičius *Glucose Oxidase from Penicillium Funiculosum in Biosensor for Determination of Glucose Design*
P40	J. Voronovič, L. Sakalauskienė, A.G. Lobanok, T.V. Semashko, R.V. Mikhailova, A. Ramanavičienė, A. Ramanavičius *Application of Glucose Oxidase from Penicillium funiculosum for Determination of Glucose*
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P44	A. Ciuciulkaite, Y. Aberi, A. Kvennefors, M. Graczyk, I. Maximov *Nanoimprint-Assisted Patterning of Self-Assembled Monolayers*
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P46	W. Redzynia, R. Kapica, M. Makowski, P. Makowski, J. Sielski, J. Tyczkowski *Plasma Production of Nanostructured Metal Oxide Layers - Characterization of Catalytic Activity*
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P50	A. Gustainytė, M. Franckevičius, L. Rastenienė, R. Vaišnoras, V. Gulbinas *Nanocomposites Stability of Dendrimer Encapsulated Silver Nanoparticles*
P51	A. Chodosovskaja, L. Šlikas, J. Pilipavičius, A. Beganskiene, A. Kareiva *Silver Nanoprisms Self-Assembly On Modified Porous Silica Coatings*
P52	Z. Gertnere, U. Malinovskis, R. Poplausks, I. Apsite, F. Lombardi, D. Erts *Adhesion between Surface and Metal Nanoparticle Arrays Studied by Atomic Force Microscopy*
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