# 14th INTERNATIONAL CONFERENCE-SCHOOL

# "Advanced Materials and Technologies"

## 27-31 August 2012, Palanga, Lithuania

## Programme

**August 27, Monday**

**14:00 – 20:00** **Arrival and registration**

**August 28, Tuesday** *Chairman* **– *prof. S. Tamulevičius***

**8:30 – 8:45** **Opening**

**8:45 – 9:30** Ivo Leito (University of Tartu, Estonia) **Electrospray Ionization Efficiency Scale of Organic Compounds**

**9:30 – 10:15** Andrey Danilov (Chalmers University of Technology, Sweden) **Single-Molecular Electronic Devices: Tunable Functionality by Chemical Design**

**10:15 – 11:15** Friedrich Kremer (University of Leipzig, Germany) **Broadband Dielectric Spectroscopy and its applications**

**11:15– 11:35** **Coffee break**

**11:35 – 12:35** Linas Vilčiauskas (Max-Planck-Institute, Germany) ***Ab initio* Molecular Dynamics Studies of Proton Transport Mechanisms in Phosphorus Oxoacids**

**12:35 – 13:35** Mikas Vengris (Vilnius University, Lithuania) **Ultrafast Spectroscopy and its Application in Biology and Physical Chemistry**

**13:35 – 18:00** **Break**

**18:00 – 22:00** **Discussions and welcome party**

**August 29, Wednesday** *Chairmen* **– *prof. Saulius Juršėnas, prof. Rainer Adelung***

**8:30 – 9:30** Ramūnas Valiokas (Center for Physical Sciences and Technology, Lithuania) **Implementation of the Biochip Platform: from Diagnostics to Programmable Cell Behavior and Regenerative Medicine**

**9:30 – 11:00** Rainer Adelung (Christian-Albrechts-University Kiel, Germany) **Functional Nanomaterials: From Electronic to Biomedical Application**

**11:00 – 11:20** **Coffee break**

**11:20 – 12:05** Sergey Kubatkin (Chalmers University of Technology, Sweden) **Epitaxial Graphene on Silicon Carbide for Quantum Metrology**

**12:05 – 12:50** Saulius Juršėnas (Vilnius University, Lithuania) **Tailoring the Photophysical Properties of Multifunctional Molecular Light Emitters**

**12:50 – 13:35** Martin Kirchner (RAITH GmbH, Germany) **Electron Beam Lithography for Research: Technology and Applications**

**13:35 – 16:00** **Break**

**16:00 – 22:00** **Excursion**

**August 30, Thursday** *Chairmen – **Dr. Nils Nordell, prof. Jean-Louis Coutaz***

**8:30 – 9:15** Floriana Lombardi (Chalmers University of Technology, Sweden) **HTS Devices at the nanoscale**

**9:15 – 10:00** Karlis A. Gross (Riga Technical University, Latvia) **Towards Micro-Fabrication of Advanced Hydroxyapatites**

**10:00 – 11:00** Nils Nordell (Electrum Laboratory, Sweden) **Semiconductor Processing - from Research to Production**

**11:00 – 11:20 Coffee break**

**11:20 – 12:25** Vincas Tamošiūnas **Solar Cells: Research and Market Trends**

**12:25 – 13:10** Jean-Louis Coutaz (University of Savoie, France) **Principles and Recent Developments of Terahertz Time-Domain Spectroscopy**

**13:10 – 13:55** Ivan Maximov (Lund University, Sweden) **Nanoimprint as the Next Generation Lithography in Nanofabrication**

**13:55 – 16:00 Break**

**16:00 – 18:00 Poster Session** (Chairman prof. Floriana Lombardi)

**August 31, Friday** *Chairman – **Dr. Ivan Maximov***

**8:30 – 9:15** Frank Kubel (Institute of Chemical Technologies and Analytics, Vienna Technical University) **Squeezing Material Properties out of XRD Powder Patterns**

**9:15 – 10:00** Remigijus Juškėnas (Center for Physical Sciences and Technology, Lithuania) **XRD Analysis of Thin Solid Films**

**10:00 – 10:45** Arūnas Šetkus (Center for Physical Sciences and Technology, Lithuania) **Advances in Gas Sensors: To Nano and Hybrid Systems**

**10:45 – 11:45** Thomas G. Mathia (C.N.R.S. Ecole Centrale de Lyon, France) **Recent Trends in Multi-Scale, Multi-Sensor Surface Morphology Analysis of a Variety of Advanced Materials and Technologies for Diverse Applications**

## Poster Session. August 30, Thursday 16:00 – 18:00

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| | **METHODS OF SURFACE ANALYSIS** |
| **P1** | I. Baleviciute, Z. Balevicius, A. Makaraviciute, A. Ramanaviciene, A. Ramanavicius *Study of Antibody-Antigen Binding Kinetics by Total Internal Reflection Ellipsometry* |
| **P2** | A. Čiučiulkaitė, A. Tamulevičienė *Characterisation of DLC:$SiO_x$ Thin Films Using FTIR Spectroscopy* |
| **P3** | A. Bertašienė *An Optical Tool for the Motion Visualization* |
| **P4** | I. Laguta, O. Stavinskaya, O. Dzjuba, T. Fesenko *Pencil Lead as Matrix for Mass Spectrometry Analyse of Antioxidants in Magnolia Leaves Extracts* |
| **P5** | E. Navickas, S. Tamulevičius, J. Fleig *Numerical Simulations of Impedance of Thin Ionically Conductive Layers on Silicon* |
| **P6** | R. Paulauskas, V. Minialga *Indium-tin Cathode of Magnetron Temperature Measurement in Vacuum by Thermography* |
| **P7** | A.J. Janavičius, R. Purlys, M. Kiriliauskis *Investigation of Metastable Vacancies Density by Bragg Diffraction of X-rays* |
| | **SURFACE ENGINEERING AND NANOSTRUCTURES** |
| **P8** | Z. Alute, A. Pastare, J. Katkevics, A. Viksna, J.D. Holmes, D. Erts *Characterization of Nanowire Arrays by Kelvin Probe Force Microscopy* |
| **P9** | N. Armakavičius, T. Tamulevičius, A. Jurkevičiūtė S. Tamulevičius *Formation and Investigation of One-Dimensional and Two-Dimensional Periodical Structures* |
| **P10** | E. Borovikovaitė, A. Grubinskaitė, J. Lukšėnienė, A. Selskis, J. Senvaitienė, R. Ramanauskas, A. Kareiva *Sol–Gel Method for the Preservation of Steel* |
| **P11** | I. Černiukė, K. Šliužienė, G. Grigaliūnaitė-Vonsevičienė, V. Lisauskas, A. Maneikis, B. Vengalis *Influence of Preparation Conditions on the Electrical Properties of the Al/$Alq_3$/Si Diode Structures* |
| **P12** | V. Fitio, I. Yaremchuk, Ya. Bobitski *Features of the Transmission Light by Structure Grating - Thin Metal Film - Grating for Account of Plasmon Polariton Resonance* |
| **P13** | V. Fitio, I. Yaremchuk, Ya. Bobitski *Interaction Light with Nanowires Grating on Dielectric Substrate* |
| **P14** | E.Garskaite, S.T. Huang, T.C.H. Yang, A. Kareiva *Hydrophilicity of $TiO_2$ Nanofilms Deposited by Chemical Bath Deposition (CBD) Method* |
| **P15** | Y. Gerasymchuk, L. Marciniak, W. Strek, D. Hreniak, D. Biały, M. Wawrzyńska, W. Kałas, L. Tomachynski *New Hybrid Materials Based on Macrocyclic Complexes and Nanosized $SiO_2$ Carrier for Biomedical Applications* |

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| **P16** | U. Gertners, J. Teteris *Polarization Driven Light-induced Relief Formation in Amorphous Chalcogenide Materials* |
| **P17** | N. Ivashchenko, V. Tertykh *Hydridesilicas Application for the Synthesis of Noble Metals Nanoparticles* |
| **P18** | A. Beganskiene, A. Kareiva *Modification of Silica Nanocoatings with Compounds Containing Functional Groupings* |
| **P19** | A. Knoks, I. Dirba, M. Majorovs, J. Kleperis, G. Mezinskis, G. Kronkalns *Spray Pyrolysis Method to Obtain $CoFe_2O_4$ Thin Films: Optical, Magnetic and Morfological Properties* |
| **P20** | A. Koroliov, R. Adomavičius, A. Šiušys, J. Sadowski, A. Reszka, A. Krotkus *Efficient Terahertz Emission from Vertically Aligned GaAs Nanowires* |
| **P21** | V. Korsaks, R. Kirsteins, B. Berziņa, L. Trinkler *Photoluminescence of Hexagonal Boron Nitride Macro and Nano Materials Dependent on Surrounding Gases and Pretreatment* |
| **P22** | J. Kosmaca, J. Andzane, J.D. Holmes, D. Erts *Application of Ge Nanowire Mass Sensor for Graphene Transport, Mass and Thickness Determination* |
| **P23** | R.B. Kozakevych, Y.M. Bolbukh, V.A. Tertykh *Modified Silica Particles for Drug Delivery* |
| **P24** | R. Lukauskaitė, A. V. Valiulis, O. Černašėjus *The Investigation of Plasma Sprayed Ni Base Coatings on Aluminium Alloys Substrates* |
| **P25** | M. Maciulevicius, A. Vinciunas, M. Brikas, G. Raciukaitis *Pulsed Laser Generation of Gold Nanoparticles with on-Line characterization* |
| **P26** | A. Makaraviciute, T. Ruzgas, A. Barrantes, Z. Balevicius, A. Ramanavicius, A. Ramanaviciene *QCM-D and TIRE Investigation of Oriented Immunoglobulin Immobilization on Planar Gold and Gold Nanoparticle Modified Surfaces* |
| **P27** | I. Krawczyk-Kłys, P. Makowski, J. Wójcik, J. Tyczkowski *Influence of Carbon Black in Commercial SBS Rubbers on Their Adhesion Properties after Plasma-Modification* |
| **P28** | V. Mazeiko, A. Kausaite–Minkstimiene *Investigation of Redox Mediators for Reagentless Amperometric Glucose Biosensors* |
| **P29** | A. Brochocka, I. Mian, K. Majchrzycka, J. Sielski, J. Tyczkowski *Plasma Modified Polycarbonate Nonwoven as Barrier Material for Liquid Aerosols* |
| **P30** | P. Pietrowski, M. Okrasa, I. Mian, J. Tyczkowski, S. Kuberski *Effects of Plasma Treatment on Surface Characteristics of Granulated Activated Carbon* |
| **P31** | H. Petrovska *Methods of the Photothermal Diagnostics for Optical And Laser Production* |
| **P32** | R. Kapica, W. Redzynia, M. Kozanecki, M.M. Chehimi, J. Sielski, S.M. Kuberski, J. Tyczkowski *Plasma Deposition and Characterization of Copper-Doped Cobalt Oxide Nanocatalysts* |
| **P33** | Yu. Dekhtyar, A. Dišlers, A. Mežale, P. Pumpēns, R. Renhofa, M. Romanova, D.Skrastiņa *Complexes of Hepatitis B Virus-Like Particles and Silica Nanoparticles for Improvement of Vaccine Efficiency and Their Time and Temperature Stability* |
| **P34** | A. Šiušys, M. Sawicki, S. Dobkowska, T. Wojciechowski, A. Reszka, B.J. Kowalski, P. Dłużewski, J. Domagała, H. Przybylińska, T. Story, J. Sadowski *Magnetic and Structural Properties of GaAs-(Ga,Mn)As Core-Shell Nanowires Grown on GaAs (111)B Substrate* |
| **P35** | L.P. Storozhuk, S.V. Hutornoy, I.M. Mudrak *The Adsorption Properties of Magnetically Sensitive Nanocomposites Based on Transition Metal Oxides* |
| **P36** | D. Erts, M. Kundzins, M. Rutkis, L. Muizniece, S. Laimina, I. Cakstina, J. Ancans, A. Sternbergs *Latvia in the Baltic Sea Region (BSR) Programme project "Technet_nano –Transnational Network of Clean Rooms and Research Facilities in Nanotechnology Making Accessible Innovation Resources and Services to SMEs in the BSR"* |
| **P37** | J. Voronovič, M. Tok, E. Bilici, Y. Oztekin, A. Ramanavičienė, Z. Yazicigil, A. Ramanavičius *Evaluation of Nanostructures in the Design of Biosensors* |
| **P38** | I. Yaremchuk, V. Fitio, M. Andrulevicius, S. Tamulevicius *Rigorous Coupled-Wave Analysis of Multilayered Grating Structures* |
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| **P40** | M. Andrulevičius, T. Tamulevičius, L. Puodžiukynas, S. Tamulevičius *Diffraction Efficiency Analysis of Hidden Image Holograms* |
| **P41** | D. Dobrovolskas, G. Tamulaitis, J. Mickevičius, C.W. Huang, C.Y. Chen, C.H. Liao, C. Hsieh, Y.L. Jung, D.M. Yeh, C.C. Yang *Plasmon-Enhanced Photoluminescence in InGaN Quantum Wells* |
| **P42** | I. Gražulevičiūtė, T. Tamulevičius, S. Tamulevičius *An Application of Automated Measurement Setup for Monitoring of Changes in Optical Properties* |
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| **P44** | R. Gudaitiene, I. Prosycevas, G. Luka, M. Godlewski, J. Waluk *Formation of Transparent ZnO Layers on the Background of Silicon and Black Silicon* |
| **P45** | J. Mickevičius, J. Jurkevičius, M. S. Shur, R. Gaska, G. Tamulaitis *Photoluminescence Efficiency Decrease and Stimulated Emission in GaN Epilayers* |
| **P46** | K. Juskevicius, A. Subacius, T. Tolenis, S. Kicas, R. Buzelis, R. Drazdys *Characterization of Niobia–Silica Mixture Coatings Produced by Magnetron Sputtering* |

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| **P49** | V. Mečņika, E. Kviesis, Z. Marcinkevičs, I. Krieviņš *Garment Integrated Photoplethysmography Device for Wireless Monitoring and Analysis of Pulse Wave* |
| **P50** | M. Narels, E. Laizane, I. Muzikante *Impact of Temperature on Photoinduced Switching Effect of Azobenzene Molecules Doped in Polymer Thin Film* |
| **P51** | D. Peckus, A. Devižis, D. Hertel, V. Gulbinas *Exciton Dynamics in Films of Pure Merocyanine and its Blends with Fullerenes* |
| **P52** | M. Peckus, L. Maigyte, J. Trull, V. Mizeikis, M. Malinauskas, S. Juodkazis, C. M. Cojocaru, M. Rutkauskas, V. Sirutkaitis, K. Staliunas *Woodpile Photonic Crystals for Light Beam Collimation* |
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| **P58** | J. Prikulis, J. Andzane, J.D. Holmes, D.Erts *Photoconductive Properties of $Sb_2S_3$ Nanowire Arrays* |
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| **P60** | G. Recio-Sánchez, S. Sánchez de la Morena, V. Torres-Costa, R.J. Martín-Palma *Au Electrodeposition into Nanostructured Porous Silicon for the Fabrication of Thin Film Si-Based Plasmonic Solar Cells* |
| **P61** | D. Shevchenko, J. Mickevičius, G. Tamulaitis, N. Starzhinskiy, K. Katrunov, V. Ryzhikov *Study of Photoemission Properties in ZnSe Scintillation Crystals Co Doped by Aluminium* |
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| **P63** | A. Tokmakovs, M. Rutkis, K. Traskovskis, E. Zarins, L. Laipniece, V. Kokars, V. Kampars *Properties of EO Active Molecular Glasses Based on Indandione and Azobenzene Chromophores* |
| **P64** | K. Viskontas, N. Rusteika *Characterisation of Semiconductor Saturable Absorber with Ultrafast Fiber Laser Technique* |
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| **P75** | O. Scit, A. Jankeviciute, I. Bogdanoviciene, R. Ramanauskas, A. Beganskiene, A. Kareiva *Preparation and Characterization of Sol-Gel Derived Lanthanide-Doped Calcium Hydrohyapatite Powders* |
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| **P91** | D. Zubauskienė, E. Strazdienė, V. Urbelis *The Investigation of Upholstery Materials Performance Properties* |
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| **P93** | S. Khalameida, V. Sydorchuk, J. Skubiszewska-Zięba, R. Leboda *Synthesis of Lithium Niobate Using Ball Milling* |
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| **P95** | A. Mekys, J. Ruseckas, G. Juzeliūnas *Electronic Transmission through Symmetric Single and Double Graphene Junction* |
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| **P98** | V. Sydorchuk, S. Khalameida, J. Skubiszewska-Zięba, R. Leboda *Mechanochemical Activation of Oxides and Hydroxides as Photocatalysts in Visible Region* |
| **P99** | A. Uleckas, E. Gaubas, E. Brytavskyi, G. Tamulaitis *Evaluation of Carrier Recombination Peculiarities in CdS Layers by Contactless Photoconductivity Transient and Photoluminescence Techniques* |
| **P100** | S. Varnaitė, L. Stygienė, R. Čepliauskienė, S. Krauledas, A. Sankauskaitė *The Influence of Three-Layer Knitted Fabrics' Structure On Electrostatic and Comfort Properties* |
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