

SCIENTIFIC PROGRAM

Monday, 21st May 2018

08:30	Participant registration
09:30-10:00	Opening Ceremony <i>I.Tsependa, A.Zagorodnyuk, I.Savchenko, A.Verbitsky, N.Kutsevol, J.V.Grazulevicius, O. Aksimenteva</i>
<p>Plenary Session 1.</p> <p>Electronic processes at interfaces of organic materials with metals, as well as biological, organic, and inorganic media</p> <p>Chairmens: Juozas Vidas Grazulevicius and Olena Aksimenteva</p>	
10:00-10:40	<i>Michel RAWISO</i> <i>Institut Charles Sadron, Strasbourg, France</i> Main characteristics of conjugated polymer and copolymer solutions
10.40-11.20	<i>Leonas VALKUNAS</i> <i>Center for Physical Sciences and Technology, Vilnius, Lithuania</i> Self-regulation ability of photosynthetic systems
11:20-11:35	<i>Guochao NIE</i> <i>Yulin Normal University, Yulin, China</i> In Vivo Synergistic Therapeutic Effect of Photodynamic and Hyperthermia
11.35-11.50	<i>Petro SMERTENKO</i> <i>Lashkaryov Institute of Semiconductor Physics NASU, Kyiv, Ukraine</i> Some properties of clonidine hydrochloride - pattern silicon hybrids
11.50-12.05	<i>Preeti JAIN</i> <i>Medi-Caps University, Indore, India</i> Characterization of Cu bhasma by using Synchrotron Radiation
12:05-12:20	Coffee break
12.20-13.00	<i>Fernand MARQUIS</i> <i>San Diego State University, Seaside, USA</i> Carbon nanotube and graphene nano structured hybrid materials systems for renewable energy applications and sustainable development
13.00-13.40	<i>Andrey KADASHCHUK</i> <i>IMEC, Leuven, Belgium</i> Negative field dependent charge mobility in crystalline organic semiconductors with delocalized transport
13.40-13.55	<i>Bhawsar JEETENDRA</i> <i>Medi-Caps University, Indore, India</i>

	Quantum chemical assessment and DFT study of some benzothiazole derivatives as corrosion inhibitor
14.00	Lunch Break
15.00	Continuation of the registration
16.30	Coffee Break
17.00	Poster Session 1
19.00	Dinner
20.00	Get-together party

Tuesday, 22nd May 2018

Plenary Session 2.

Thin film structures and their application

Chairmens: Michel Rawiso and Beata Derkowska-Zielinska

9:25-9:40	<p>Pervin DEVECI <i>Selcuk Universty, Konya, Turkey</i> Metal complexes of ferrocene-linked vic-dioxime ligand: preparation, characterization, and electrochemistry</p>
9:40-9:55	<p>Olena AKSIMENTYEVA <i>Ivan Franko National University of Lviv, Lviv, Ukraine</i> Generality in the properties of compounds characterized by different symmetry of the structure</p>
9:55-10:10	<p>Bilge TANER <i>Selcuk Universty, Konya, Turkey</i> A series of novel ferrocenyl derivatives: investigation of electrochemical properties and biological activities</p>
10:10-10:40	<p>Roman BIHUN <i>Ivan Franko National University of Lviv, Lviv, Ukraine</i> The transition from quasi-ballistic to ballistic electron transport in thin metal films</p>
10:40-10:55	<p>Durai GOVINDARAJAN <i>Sathyabama Institute of Science and Technology, Chennai, India</i> Influence of Substrate Temperature on Microstructural and Supercapacitive Behavior of Cr Doped CuO Thin Films</p>
10:55-11:10	<p>Tetyana MAZUR <i>Vasyl Stefanyk Prekarpathian National University, Ivano-Frankivsk, Ukraine</i> Quasi-chemistry of owned point defects in thin films of cadmium telluride</p>
11:10-11:40	<p>Vasily LUTSYK <i>Institute of Physical Materials Science of Siberian Branch of the Russian academy of Sciences, Ulan-Ude, Russian Federation</i> Space phase diagram as a novel tool of materials science</p>
11:40-12:00	<p>Alexei NAZAROV <i>Lashkaryov Institute of Semiconductor Physics NASU, Kyiv, Ukraine</i> Electrical conductivity and photoresponse of n⁺ZnO thin films fabricated by magnetron sputtering in CH₄ ambient</p>
12:00-12:20	<p style="text-align: center;">Coffee break and Poster Session 2</p>
<p style="text-align: center;">Plenary Session 3. Electronic processes in nanostructures and polymer composites Chairmens: Guochao Nie and Fernand Marquis</p>	

12:20-12:50	Remi CHAUVIN <i>University of Toulouse, Toulouse 3-Paul Sabatier, Laboratoire de Chimie de Coordination, Toulouse, France</i> Carbo-OPEs as carbo-expanded molecular wires: synthesis and electronic properties
12:50-13:20	Yevgen MAMUNYA <i>Institute of Macromolecular Chemistry of NASU, Kyiv, Ukraine</i> Piezoresistive effect in segregated polymer composites
13:20-13:50	Valérie MARAVAL <i>University of Toulouse, Toulouse 3-Paul Sabatier, Laboratoire de Chimie de Coordination, Toulouse, France</i> Carbo-quinoid and carbo-extended TTF: synthesis and redox behavior
13:50-14:10	German TELBIZ <i>L.V. Pisarzhevsky Institute of the Physical Chemistry of NASU, Kyiv, Ukraine</i> The morphology and surface plasmon resonance bands of "green" and ion-synthesized silver nanoparticles self-organized in 2D mesoscopic matrices
14:10	Lunch Break
Plenary Session 3. Electronic processes in nanostructures and polymer composites Chairmens: Guochao Nie and Fernand Marquis (Continuation)	
15:00-15:20	Volodymyr KOTSYUBYNSKY <i>Vasyl Stefanyk Prekarpathian National University, Ivano-Frankivsk, Ukraine</i> Structure and photocatalytic properties of hydrothermal synthesized iron oxide
15:20-15:40	Antonina NAUMENKO <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Dispersion of Electronic States in Nanostructured and Crystalline Forms of Graphite and Transition Metal Dichalcogenides
15:40-15:55	Pervin DEVECI <i>Selcuk Universty, Konya, Turkey</i> Synthesis of New Silica Based Smart Drug Delivery System and Investigation of Its Drug Delivery Properties
15:55-16:15	Taras KAVETSKYY <i>Drohobych Ivan Franko State Pedagogical University, Drohobych, Ukraine</i> Contribution of slow positron beam spectroscopy for understanding a

	formation of ion-synthesized silver nanoparticles self-organized in PMMA matrix
16:15-16:30	<i>Oleg DIMITRIEV</i> <i>Lashkaryov Institute of Semiconductor Physics NASU, Kyiv, Ukraine</i> Excimer emission in J-aggregates
16:30	Coffee break and Poster Session 2
17:00	Excursion 1

Wednesday, 23^d May 2018

Plenary Session 4.

Electronic processes in nanostructures and polymer composites

Chairmens: Leonas Valkunas and Pervin Deveci

(Continuation)

9:30-10:00	<p>Tymish OHULCHANSKY <i>College of Optoelectronic Engineering, Shenzhen University, Shenzhen, China</i> Electronic processes within multifunctional nanostructures for optical imaging and light enacted therapy</p>
10:00-10:20	<p>German TELBIZ <i>L.V. Pisarzhevsky Institute of the Physical Chemistry of NASU, Kyiv, Ukraine</i> New insights into nanomodification of tio2 structures by anion doping in sol-gel process</p>
10:20-10:35	<p>Ilona RADKOWSKA <i>Jan Dlugosz University in Czestochowa, Czestochowa, Poland</i> Spiropyran polymeric thin layers – dielectric properties</p>
10:35-10:50	<p>Yuriy SKORENKYY <i>Ternopil Ivan Pulu National Technical University, Ternopil, Ukraine</i> Electron correlation effects in configurational model of quasi-2D organic conductor</p>
10:50-11:10	<p>Coffee break and Poster Session 3</p>
<p>Plenary Session 5. Nonlinear properties of polymer composites, nanostructures, NLO information recording Chairmens: Remi Chauvin and Alexander Pud</p>	
11:10-11:25	<p>Beata DERKOWSKA-ZIELINSKA <i>Institute of Physics, Faculty Nicolaus Copernicus University, Torun, Poland</i> Effective control of two-photon absorption of dcm dye by solvent manipulation</p>
11:25-11:40	<p>Vasil YASHCHUK <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Mechanisms of interaction between stimulated raman scattering and random lasing in multiple scattering media</p>
11:40-11:55	<p>Ilona RADKOWSKA <i>Jan Dlugosz University in Czestochowa, Czestochowa, Poland</i> Spiropyrans as NLO Functional Materials - a Theoretical Study</p>
11:55-12:10	<p>Vasil YASHCHUK</p>

	<i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Waveguide dye laser based on nanoscale mesostructured film
12:10-12:25	<i>Ilona RADKOWSKA</i> <i>Jan Dlugosz University in Czestochowa, Czestochowa, Poland</i> NLO properties of selected 1-naphthol derivatives
12:25-13:30	Lunch Break
13:30	Excursion 2

Thursday, 24th May 2018

Plenary Session 6.

Novel materials, structures, and technologies
Chairmen: Preeti Jain and Tymish Ohulchanskyy

<p>9:30-10:00</p>	<p>Juozas Vidas GRAZULEVICIUS <i>Kaunas University of Technology, Kaunas, Lithuania</i> Donor-acceptor molecular materials as emitters and hosts for efficient organic light emitting diodes</p>
<p>10:00-10:20</p>	<p>Alexander PUD <i>Institute of Bioorganic Chemistry and Petrochemistry, NASU, Kyiv, Ukraine</i> Electroactive polymer-conducting polymer core-shell nanocomposites with improved structural and electronic properties of the conducting polymer component</p>
<p>10:20-10:40</p>	<p>Aurimas VYSNIAUSKAS <i>Center for Physical Sciences and Technology, Vilnius, Lithuania</i> Temperature effect on molecular rotors</p>
<p>10:40-11:00</p>	<p>Theerthagiri JAYARAMAN <i>Sathyabama Institute of Science and Technology, Chennai, India</i> Development of novel platinum free electrocatalysts for the applications in dye-sensitized solar cells and hydrogen evolution reaction</p>
<p>11:00-11:20</p>	<p>Piotr BRAGIEL <i>Jan Dlugosz University in Czestochowa, Czestochowa, Poland</i> Zinc niobium borate and lead arsenate glass ceramics for insulating layers</p>
<p>11:20-11:40</p>	<p>Valery BLIZNYUK <i>Clemson University, Clemson, SC, USA</i> Vinyltoluene- organic fluorophore copolymer systems as a scalable platform for plastic scintillators and radiation detectors</p>
<p>11:40-12:00</p>	<p>Jolanta KOWALONEK <i>Nicolaus Copernicus University, Torun, Poland</i> Surface structure and morphology of polypropylene films with different fillers as piezoelectric materials</p>
<p>12:00-12:20</p>	<p>Coffee break</p>
<p>Plenary Session 6. Novel materials, structures, and technologies Chairmen: Preeti Jain and Tymish Ohulchanskyy (Continuation)</p>	
<p>12:20-13:00</p>	<p>Michal PIASECKI <i>Jan Dlugosz University in Czestochowa, Czestochowa, Poland</i></p>

	New chalcogenide-halide materials for optoelectronic applications
13:00-13:15	Larisa KUNITSKAYA <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Micellar Structures of PAAc/PAAm Block Copolymers in the Processes of Doxorubicin Encapsulation
13:15-13:30	Roman NIKOLAIEV <i>Institute of Molecular Biology and Genetics of NASU, Kyiv, Ukraine</i> Interaction "core" 2-5oligoriboadenilates to DNA-methyltransferase EcoRI in vitro and in silico
13:30-13:45	Sylwia GRABSKA <i>Nicolaus Copernicus University, Torun, Poland</i> The miscibility of two- and three component biopolymer mixtures based on silk fibroin, chitosan, collagen
13:45-14:00	Khrystyna IVANIUK <i>Lviv Polytechnic National University, Lviv, Ukraine</i> High-efficiency WOLED based on double emission layers
14:00	Lunch Break
Plenary Session 6. Novel materials, structures, and technologies Chairmens: Sergiy Kurta and Nataliya Kutsevol (Continuation)	
15:00-15:30	Beata KACZMAREK <i>Nicolaus Copernicus University, Torun, Poland</i> The characterization of scaffolds cross-linked by tannic acid addition
15:30-15:50	Liudmyla GRYSHCHUK <i>Institute for Composite Materials, Kaiserslautern, Germany</i> Functionalisation of self-assembling copolymers for nano-encapsulation of active species for skin care applications
15:50-16:10	Tatyana ZHELTONOZHSKAYA <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> The role of silica/polyacrylamide hybrids in synthesis and stabilization of silver nanoparticles
16:10-16:25	Preeti JAIN <i>Medi-Caps University, Indore, India</i> Quantum chemical study of some heterocyclic compounds
16:25-16:40	Oleksandr DRYUCHKO <i>Poltava National Technical Yuri Kondratyuk University, Poltava, Ukraine</i> Peculiarities of transformation ree-containing systems of nitrate precursors in the preparatory process of formation multi-functional of oxide materials
16:40-16:55	Weronika PRUS

	<i>Nicolaus Copernicus University, Torun, Poland</i> The influence of new polymeric microbeads in peeling products on skin condition
16:55-17:10	<i>Vladymir KOROBSKYY</i> <i>National university of life and environmental sciences, Kyiv, Ukraine</i> New aspects of establishing of environmentally safe composite materials for contact systems of electrical apparatus of agrarian sector
17:10-17:25	<i>Oksana NADTOKA</i> <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Hybrid polyacryamide hydrogels: synthesis, properties and prospects of application
17.25-17.40	<i>Anna PIDLUZHNA</i> <i>Lviv Polytechnik National University, Lviv, Ukraine</i> Electroluminescent properties of heterostructures based on organic semiconductors and CdTe quantum dots
17:30	Coffee Break
17:50	Poster Session 3
19:30	Banquet

Friday, 25th May 2018

Plenary Session 7.

**Bio- systems and problems of energy conservation
Chairmens: Iryna Savchenko and Petro Smertenko**

9:30-9:55	<i>Nataliya KUTSEVOL</i> <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Nanocomposites for therapy of tumor cells - from synthesis to application
9:55-10:10	<i>Natalia KASIAN</i> <i>Institute for scintillation materials of NASU, Kharkiv, Ukraine</i> Impact of surface properties of branched polyacrylamides on model lipid membranes of various compositions
10:10-10:25	<i>Taras LENDIEL</i> <i>National university of life and environmental sciences, Kyiv, Ukraine</i> Phytomonitoring in phytometry of plants
10:25-10:40	<i>Kateryna HUBENKO</i> <i>Institute for Scintillation Materials NASU, Kharkiv, Ukraine</i> Nanoparticle-to-dye interaction: dye excimer formation
10:40-10:55	<i>Tarana MAMMADOVA</i> <i>Institute of Petrochemical Processes NAS of Azerbaijan, Baku, Azerbaijan</i> Effect of additions of individual fatty acids imidazolines on antistatic property diesel fuels
10:55-11:10	<i>Sergiy KURTA</i> <i>Vasyl Stefanyk Prekarpathian National University, Ivano-Frankivsk, Ukraine</i> Synthesis and properties of the motor fuels combustion activators
11:10-11:30	Coffee break
<p>Plenary Session 8.</p> <p>Physics and technology of organic solar cells, LEDs, FETs, sensors. Conjugated thin films for electrochromic devices</p> <p>Chairmens: Michal Piasecki and Jolanta Kowalonek</p>	
11:30-11:50	<i>Dmytro VOLYNIUK</i> <i>Kaunas University of Technology, Kaunas, Lithuania</i> Derivatives of acridan and decafluorobiphenyl as multifunctional luminophores for OLEDs
11:50-12:05	<i>Iryna SAVCHENKO</i> <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> Organometallic materials based lanthanides for electroluminescent

	devices
12:05-12:20	<i>Rostyslav YAVORSKYI</i> <i>Vasyl Stefanyk Prekarpathian National University, Ivano-Frankivsk, Ukraine</i> The prospects for the using of ii generation thin film solar cells based on cadmium telluride
12:20-13:00	Adoption of the conference resolution