INTERNATIONAL WORKSHOP FOR YOUNG SCIENTISTS "FUNCTIONAL MATERIALS FOR TECHNICAL AND BIOMEDICAL APPLICATIONS"

WORKSHOP PROGRAM

September 18-20, 2023, Kharkiv, Ukraine

Monday, September 18				
11:00 - 11:10	Opening ceremony			
11:10 – 11:55	Dr. Oleksandr Tomchuk (Great Britain)	Small angles for grand actions		
11:55 – 12:10	Coffee-break			
12:10 – 12:25	Dr. Iryna Ropakova	Homogeneous versus inhomogeneous molecular aggregates: optical characteristics		
12:25 – 12:40	Denys Kofanov	Growth and characterization of mixed LuYAG based crystals		
12:40 – 12:55	Dr. Oleksandr Rebrov	The features of Eu ₂ O ₃ solubilization in various halide melts		
12:55 – 13:10	Viktor Kireev	Structure and antioxidant properties of TiO _{2-x} nanoparticles		
13:10 – 14:30	Lunch			
14:30 – 14:45	Mikola Sibilyev	Development of 3D printing technology for elements of Shashlik-type radiation detectors with improved energy resolution		
14:45 – 15:00	Ilarion Khromiuk	Pulse shape discrimination capability of organic composite scintillators with different grain sizes		
15:00 – 15:15	Oleksandr Suddia	Thermal conductive properties of polyimide dielectrics for combined thermally conductive		
15:15 – 15:30	Sofiia Sadivnycha	printed circuit boards Growth of Sesquioxide Crystals from Tungsten Crucibles by Vertical Gradient Freezing Method		
15:30 – 15:45	Coffee-break			
15:45 – 16:30	Prof. Andrea Alù (USA)	Extreme Light Control with Metamaterials		
16:30 – 16:45	Dr. Nataliia Mysko- Krutik (Germany)	Optica is the leading society in optics and photonics		

Tuesday,	Sente	mber	19
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10:00 – 10:45	Prof. Longin Lisetski (Ukraine)	Liquid crystals as sensor and biomimetic materials
10:45 – 10:55	Break	
10:55 – 11:10	Dr. Maksym Barabashko	Thermal conductivity of hydroxyapatite composite with small amounts of MWCNTs additives
11:10 – 11:25	Dr. Shiva Lingappa Udachan	Impact of thickness on refractive index of chromium nano films
11:25 – 11:40	Nazar Pavlyshche	Optical properties of a Bruggeman composite with randomly arranged anisotropic metal inclusions
11:40 – 11:55	Oksana Mankovska	Brewster's angle shift with two-dimensional materials and structures
11:55 – 12:15	Coffee-break	
12:15 – 12:30	Polina Pisklova	The Stability of TDBC J-Aggregates in Layered Polymer Films
12:30 – 12:45	Svitlana Hrankina	Formation of TDBC J-aggregates in a nematic liquid crystal matrix
12:45 – 13:00	Tamara Skrypnyk	Perovskite Nanocrystals Composite Materials Based on Polymer Cross-Linked Systems
13:00 – 13:15	Volodymyr Vasylkovskyi	Laser generation of multicomponent crystalline nanostructures
13:15 – 14:30	Lunch	
14:30 – 15:15	Dr. Sci. Nataliya Babayevska (Poland)	ZnO surface and crystal structure modification for obtaining multifunctional biomaterials
15:15 – 15:30	Coffee-break	
15:30 – 15:45	Danylo Martynov	Electrochemiluminescent properties of sensors based on Langmuir-Blodgett films
15:45 – 16:00	Artem Hrinchenko	Designing hyperbolic metasurfaces based on gold nanodisks
16:00 – 16:15	Andrey Varich	The development of technological routine for sodium iodide based wastes reprocessing
16:15 – 16:30	Garry Moroz	Influence of size effects on the field amplification factor near a spherical metal nanoparticle
16:30 – 16:40	Break	
16:40 – 17:40	Kostyantyn Ponomaryov (Ukraine)	Liberated art. From Duchamp to Christo and Jeanne-Claude
18:00	Dinner	

Wednesday, September 20

15:00 – 16:30 TWISMA meeting

16:30 Workshop closing