Programme of the 22nd International Conference-School "Advanced Materials and Technologies 2020"

Date: 24-28 August 2020

Venue: Hotel "Gabija" (http://www.gabija.lt/en/)

Vytauto st. 40, Palanga, 00160 Lithuania

August 24, Monday

14:00 – 20:00 Arrival and registration

August 25, Tue	esday Chairman Sigitas Tamulevičius
8:30 - 9:00	Registration
9:00 - 9:15	Opening
9:15 – 10:00	Linas Vilčiauskas (Center for Physical Sciences and Technology, Lithuania) Introduction to the World of Batteries: Aqueous vs. Non-aqueous Electrolytes
10:00 – 10:45	Justina Gaidukevič (Vilnius University, Lithuania) Graphene-based Materials and Their Applications for Energy Storage and Catalysis
10:45 – 11:00	Coffee Break
11:00 – 11:45	Hyeong-Jin Kim (Gwangju Institute of Science and Technology, Korea) Effects of Inserting Cobalt/Copper Metal on Electrochemical Properties in Si Anode for Lithiumion Batteries
11:45 – 12:30	Miho Yamauchi (Kyushu University, Japan) Inorganic Nanomaterials to Achieve Efficient Electrochemical Hydrogenation for Energy Storage and Materials Conversions
12:30 – 14:00	Break
14:00 – 16:00	Social Event: 3x3 Basketball Tournament (Palanga Sports Center, Sporto str. 3, Palanga, http://www.sportpalanga.lt/index.php?id=2042⟨=en)
16:00 – 18:00	Break
18:00 – 21:00	Discussions and Welcome Party

August 26, We	dnesday Chairman Donats Erts
8:30 - 9:00	Registration
9:00 – 9:45	Jana Andžāne (University of Latvia, Latvia) Unusual Properties of Conventional Materials: Topological Insulators for Thermoelectrics and Metrology
9:45 – 10:30	Gunnar Suchaneck (Dresden University of Technology, Germany) Synthesis of Complex Oxide Thin Films by Means of Reactive Multitarget Sputtering
10:30 - 10:45	Coffee Break
10:45 – 11:30	Liudas Mažeika (Kaunas University of Technology, Lithuania) Ultrasonic Measurements: Possibilities and Applications
11:30 – 12:15	Iryna Yaremchuk (Lviv Polytechnic National University, Ukraine) Waveguide, Plasmon Polariton and Plasmon Resonance Effects by Micro- and Nanostructures
12:15 – 12:30	Coffee Break
12:30 – 13:30	Ashok Vaseashta (International Clean Water Institute, USA) Nanomaterials for Mitigating Nano/Microplastics in Environment
13:30 – 16:00	Break / Meeting of Lithuania-Latvia-Taiwan project "2D nanostructures of noble metal nanoparticles for biosensors application"
16:00 – 22:00	Social Event: Orienteering Competition ("HBH Palanga", Žibininkų vlg., http://www.hbh.lt/)

SPINMULTIFILM Day		
8:30 - 9:00	Registration	
9:00 - 9:45	Nikolai Sobolev (University of Aveiro, Portugal) Magnetic Memory – Quo Vadis?	
9:45 – 10:30	Gunnar Suchaneck (Dresden University of Technology, Germany) Electrical Resistance and Magnetoresistance in Strontium Ferromolybdate Ceramics with Strontium Molybdate Dielectric Intergrain Barriers	
10:30 - 10:45	Coffee Break	
10:45 – 12:15	Andres Öpik (Tallinn University of Technology, Estonia) Molecular Imprinting – Opportunities and Challenges	
12:15 – 14:30	Break / Meeting of Horizon 2020 project "Physical principles of the creation of novel spintronic materials on the base of multilayered metal-oxide FILMs for magnetic sensors and MRAM" (SPINMULTIFILM)	
14:30 – 17:30	Poster Sessions Chairman Tomas Tamulevičius	
	14:30 – 15:30 Poster Session A	
	15:30 – 16:30 Poster Session B	
	16:30 – 17:30 Poster Session C	
17:30 – 18:00	Best Poster Awards and Conference photo	

Chairman Aivaras Kareiva

August 27, Thursday

August 28, Fric	lay Chairman Gunnar Suchaneck
9:00 – 9:45	Juras Ulbikas (Applied Research Institute for Prospective Technologies, Lithuania) What Does it Mean to Go for Shockley-Quiesser Limit on Industrial Level Technology: Case of Si technology
9:45 – 10:30	Hubert Halbritter (OSRAM Opto Semiconductors, Germany) Driven by Light – the World of Tomorrow
10:30 - 10:45	Coffee Break
10:45 – 11:30	Presentations of the Best Poster Awards Winners
11:30 - 12:00	Certificates and Closing Remarks