

Programme of the 21st International Conference-School
“Advanced Materials and Technologies 2019”

Date: 19-23 August, 2019

Venue: Hotel “Gabija” (<http://www.gabija.lt/en/>)
Vytauto Str. 40, LT-00160
Palanga, Lithuania

August 19, Monday

14:00 – 20:00 Arrival and registration

August 20, Tuesday

Chairman Sigitas Tamulevičius

8:30 – 9:00 Registration

9:00 – 9:15 Opening

9:15 – 10:00 **Brant Gibson** (RMIT University, Australia)
Nanoscale BioPhotonics: Using Nanomaterials and Light to Understand the Inner Workings of the Body

10:00 – 10:45 **Albert G. Nasibulin** (Skolkovo Institute of Science and Technology, Russia)
Single-Walled Carbon Nanotubes: from Synthesis to Applications

10:45 – 11:15 **Yesong Gu** (Tunghai University, Taiwan)
Fabrication of a Biocompatible and Continuous Glucose Biosensor with the Poly(3,4-Ethylenedioxythiophene) Modified Electrode

11:15 – 11:35 Coffee Break

11:35 – 12:20 **Luca Gregoratti** (Elettra-Sincrotrone Trieste SCpA, Italy)
Nanomaterials Characterization at (Near) Ambient Pressure: Current Status and Perspectives of Scanning Photoemission Imaging

12:20 – 13:05 **Tadas Paulauskas** (Center for Physical Sciences and Technology, Lithuania)
Development of Bismide-Based Multi-Junction Solar Cells

13:05 – 13:50 **Simas Račkauskas** (Kaunas University of Technology, Lithuania)
Non-Catalytic Growth of Nanowires: Insights from *in-situ* TEM Investigation

13:50 – 18:00 Break

18:00 – 21:00 Welcome Party

August 21, Wednesday

Chairman Kęstutis Grigoras

8:30 – 9:00 Registration

9:00 – 9:45 **Witold Brostow** (University of North Texas, USA)
Polymeric Materials and Their Applications

9:45 – 10:30 **Sergei V. Kostjuk** (Belarusian State University, Belarus)
Cationic Polymerization in Aqueous Media

10:30 – 11:00 **Xing Xing** (Northwestern Polytechnical University, China)
Device Engineering for High Performance Polymeric Electrochromism

11:00 – 11:20 Coffee Break

11:20 – 12:05 **Karine Mougín** (Institut de Science des Matériaux de Mulhouse, France)
Surface Color on Demand

12:05 – 12:50 **Polina P. Kuzhir** (Belarusian State University, Belarus)
Graphene/Carbon Based Multilayers and Metasurfaces for THz and Microwave Application

12:50 – 13:35 **Linas Minkevičius** (Center for Physical Sciences and Technology, Lithuania)
Compact Diffractive Optics for Terahertz Imaging Applications

13:35 – 16:00 Meeting of Mutual funds Taiwan – Latvia – Lithuania Tripartite Cooperation Program project “2D nanostructures of noble metal nanoparticles for biosensor applications”

16:00 – 22:00 Social Event (Including Basketball Tournament and Other Competitions)

August 22, Thursday*Chairman Gil Rosenman*

- 8:30 – 9:00** **Registration**
- 9:00 – 9:45** **Andrei V. Malkov** (Loughborough University London, United Kingdom)
Solution Processed CZTS Solar Cells: Chemistry of the Dissolution Process and Device Fabrication
- 9:45 – 10:30** **Kęstutis Grigoras** (VVT Technical Research Centre of Finland Ltd, Finland)
Porous Silicon Based Supercapacitors
- 10:30 – 10:50** **Coffee Break**
- 10:50 – 11:50** **Hubert Halbritter** (OSRAM Opto Semiconductors GmbH, Germany)
The Light of the Future is Smart
- 11:50 – 12:35** **Sebastian Rothe** (CERN, Switzerland)
Engineering of Materials for Radioisotope Production at CERN-ISOLDE
- 12:35 – 13:20** **Alexander Petrov** (The National Academy of Sciences of Belarus, Belarus)
Sr₂FeMoO_{6-δ} Double Perovskite Metal-Oxide Ferrimagnetic as a Prospective Material for Spintronic Applications
- 13:20 – 15:30** **Break**
- 15:30 – 17:30** **Poster Session** *Chairman Tomas Tamulevičius*
15:30 – 16:20 Poster Session I (P1 – P61)
16:35 – 17:25 Poster Session II (P62 – P122)
- 17:30 – 18:00** **Conference Photo, Awards and Certificates**

August 23, Friday*Chairman Simas Račkauskas*

- 9:00 – 10:00** **Ashok Vaseashta** (The State University of New Jersey, USA)
Smart and Connected Unmanned Aerial Surveillance Nano-Sensor Based Platforms – Platform and Project
- 10:00 – 10:45** **Gil Rosenman** (Tel Aviv University, Israel)
Peptide Photonics: From Bioinspired Nanodots to Precise Photomedicine
- 10:45 – 11:15** **Inga Morkvėnaitė-Vilkončienė** (Vilnius Gediminas Technical University, Lithuania)
Scanning Electrochemical Microscopy as a Tool for the Visualization of Antigen and Antibody Interaction
- 11:15 – 11:45** **Gil Rosenman** (Tel Aviv University, Israel)
StartUP Companies: Hopes and Reality
- 11:45 – 12:00** **Closing Remarks**
- 12:00 – 13:00** **Meeting of Project H2020-MSCA-RISE-2017 Marie Skłodowska-Curie Action: Research and Innovation Staff Exchange - Grant Agreement 778308 - SPINMULTIFILM: “Physical Principles of the Creation of Novel SPINtronic Materials on the Base of MULTilayered Metal-Oxide FILMs for Magnetic Sensors and MRAM”**