

Programme of the 26th International Conference-School
“Advanced Materials and Technologies 2024”
<https://advancedmaterials.ktu.edu/>

Date: August 26-30, 2024

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

August 26, Monday

14:00 – 20:00 Arrival and registration

August 27, Tuesday

Chairperson Sigitas Tamulevičius

8:30 – 9:00 Registration

9:00 – 9:15 Opening of the Conference-School

9:15 – 10:00 Hubert Halbritter (ams-OSRAM International GmbH, Germany)
Photons for a “Bright” Future

10:00 – 10:45 Gintautas Tamulaitis (Vilnius University, Lithuania)
Fast Scintillators for Fast Radiation Detectors in Demand for Future High Physics Experiments at CERN and High-Spatial-Resolution Medical Imaging Devices

10:45 – 11:05 Coffee Break

Chairperson Yogendra Kumar Mishra

11:05 – 11:50 Evaldas Naujalis (Centre for Physical Sciences and Technology, Lithuania)
Capabilities and Applications of Chromatography and Mass Spectrometry

11:50 – 12:20 Evelina Dudutienė (Centre for Physical Sciences and Technology, Lithuania)
Optical Characterization for Bismide-Based Quantum Structures Optimization

12:20 – 12:35 Greta Bučytė (JSC „Light Conversion”, Lithuania)
Light Conversion for Ultrafast Spectroscopy

12:35 – 12:50 Mindaugas Juodėnas (Kaunas University of Technology, Lithuania)
RIANA: Research Infrastructure Access in Nanoscience & Nanotechnology

12:50 – 14:00 Break

14:00 – 16:00 **Social Event: 3x3 Basketball Tournament** (Palanga Vladas Jurgutis progymnasium, <https://www.jurgucioproгимnazija.lt/>, Ganyklų St. 2, Palanga)

16:00 – 18:00 Break

18:00 – 21:00 **Welcome Party** (Hotel Gabija Restaurant, Vytauto St. 40, Palanga)

August 28, Wednesday

Chairperson Gintautas Tamulaitis

8:30 – 9:00 Registration

9:00 – 9:45 Casper Kunstmann (University of Southern Denmark, Denmark)
Gold Nanoparticle Based Thin Films for Optical and Electrical Sensing

9:45 – 10:15 Almira Ramanavičienė (Vilnius University, Lithuania)
Recent Advances in Nanomaterial-Based Immunosensors

10:15 – 11:00 Yogendra Kumar Mishra (University of Southern Denmark, Denmark)
Tetrapods based Smart Materials for Advanced Technologies

11:00 – 11:20 Coffee Break

Chairperson Igor A. Lukyanchuk

11:20 – 12:05 Vaidas Klimkevičius (Vilnius University, Lithuania)
Surface Modification of Nanoparticles: Challenges, Benefits and Applications

12:05 – 12:35 Weronika Andrzejewska (Adam Mickiewicz University, Poland)
SARS-CoV-2 Nanobiosensor Based on Surface Plasmon Resonance

12:35 – 13:20 Vaidotas Marozas (Kaunas University of Technology, Lithuania)
Photoplethysmography-Based Physiological Measurement Technologies: Applications and Uncertainty Estimation

13:20 – 16:00 Break

16:00 – 21:00 Social Event: Orienteering Competition, Exploring Lithuanian Kitchen (“HBH Palanga”, Žibininkai Village, <http://www.hbh.lt/>)

August 29, Thursday

Chairperson Casper Kunstmann

8:30 – 9:00 Registration

9:00 – 9:45 Igor A. Lukyanchuk (Université de Picardie Jules Verne, France)
Fundamental Topology and Emergent Applications of the Nanostructured Ferroelectrics

9:45 – 10:30 Vyacheslavs Kashcheyevs (University of Latvia, Latvia)
Recent Progress in Single-Electron Quantum Technologies

10:30 – 11:15 Andrei Kholkin (University of Aveiro, Portugal)
Magnetoelectric Effect: Applications in Energy Harvesting and Biology

11:15 – 11:30 Pawel Olowek (Rigaku Europe SE, Germany)
Structural Characterization of Nano-Scaled Materials Using X-ray Scattering Techniques

11:30 – 11:50 Coffee Break

Chairperson Vaidotas Marozas

11:50 – 12:35 Dominik Farka (Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Czech Republic)
Self-Assembly in the Service of Organic Electronics and Beyond

12:35 – 13:20 Kaspars Traskovskis (Riga Technical University, Latvia)
Development of Light Emitting Two-Coordinate Copper(I) Complexes

13:20 – 13:50 Aleksandr Bezikonnyi (Kaunas University of Technology, Lithuania)
Exploitation of Triplet Emission in Organic Electroluminescent Devices and Optical Sensors

13:50 – 15:30 Break

15:30 – 18:00 Poster Session with Voting for the Best Poster (*Chairperson Tomas Tamulevičius*)

18:00 – 18:30 Best Poster Awards and Conference Photo

August 30, Friday

Chairperson Kaspars Traskovskis

9:00 – 9:45 Franz Faupel (Kiel University, Germany)
Ways Out of the Climate and Sustainability Crisis - What Is Opinion, What Is Knowledge, Do We Have the Power to Change Something?

9:45 – 10:30 Denis Sokol (Vilnius University, Lithuania)
Layered Double Hydroxide Structures (LDH): Fabrication Techniques and Diverse Applications

10:30 – 10:50 Coffee Break

Chairperson Dominik Farka

10:50 – 11:20 Krisjanis Smits (University of Latvia, Latvia)
Advanced Characterization of Materials by SEM, TEM, FIB

11:20 – 11:50 Jurgis Pilipavičius (Vilnius University, Lithuania)
Understanding of Materials Degradation in Aqueous Batteries

11:50 – 12:00 Closing Remarks

12:00 – 12:30 Certificates and Coffee Break