



28TH INTERNATIONAL CONFERENCE-SCHOOL

ADVANCED MATERIALS AND TECHNOLOGIES 2026

Date: 24-28 August 2026

Venue: Hotel "Gabija" Vytauto St. 40,
Palanga, Lithuania
<http://www.gabija.lt/en/>

AUGUST 24, MONDAY

14:00 – 20:00 Arrival and registration

15:00 – 17:00 Meeting of Project "Research and Innovation Strategy for Lviv Polytechnic National University dedicated to White-Emitting Organic Lighting Systems (HELIOS)", EU Research and Innovation Funding Programme "Horizon Europe" (Chairperson Dmytro Volyniuk)

AUGUST 25, TUESDAY

Chairperson Sigitas Tamulevičius

8:30 – 9:00 Registration

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

9:15 – 10:00 Upcycling Triplet Excitons in OLEDs and Lasers
Arvydas Ruseckas / University of St Andrews, United Kingdom

10:00 – 10:45 Turning Light into Technology: Organic Materials in OLEDs and Upconversion
Dovydas Banevičius / Vilnius University, Lithuania

10:45 – 11:15 Influence of Carbazole-Based Host Engineering on TADF Emission Properties
Karolis Leitonas / Kaunas University of Technology, Lithuania



11:15 – 11:35 COFFEE BREAK

Chairperson Nicolas Gauquelin

11:35 – 12:20 Modification of Electronic Band Structure and Defects of Metal Oxides for Photovoltaic Applications
Chun Yuen Ho / University of Southern Denmark, Denmark

12:20 – 12:50 Integrated PV – Future for Distributed Energy Generation
Juras Ulbikas / Applied Research Institute for Prospective Technologies, Lithuania

12:50 – 13:20 Ultrafast Spectrometers: Design, Challenges and Applications
Darius Dementavičius (UAB "Light Conversion", Lithuania)

13:20 – 15:00 BREAK

15:00 – 17:00 Social Event: 3×3 Basketball Tournament
Palanga Vladas Jurgutis progymnasium, Ganyklų St. 2, Palanga

15:00 – 17:00 Meeting of Project "ZnO Tetrapod Network Platform for Neuromorphic Computing (TETRANET)", EU Research and Innovation Funding Programme "Horizon Europe" (Chairperson Simas Račkauskas)

17:00 – 18:00 BREAK

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

AUGUST 26, WEDNESDAY

Chairperson Andreas Fery

8:30 – 9:00 Registration

9:00 – 9:45 Quantum Technologies with Ultracold Atoms
Gediminas Juzeliūnas / Vilnius University, Lithuania

9:45 – 10:30 Photonic Quantum Technologies
Tadas Paulauskas / Center for Physical Sciences and Technology, Lithuania

10:30 – 11:15 Advanced Electron Microscopy for the Study of 2D Materials and Complex Oxide Interfaces
Nicolas Gauquelin / University of Antwerp, Belgium



11:15 – 11:35 COFFEE BREAK

Chairperson Petras Rimantas Venskutonis

11:35 – 12:20 Self-Assembled Plasmonic Nanostructures and Their Applications
Tomas Tamulevičius / Kaunas University of Technology, Lithuania

12:20 – 13:05 Functional Materials, Bioinspired Architectures, and Fabrication Strategies for Durable Flexible Surfaces
Vipul Sharma / University of Turku / University of Freiburg, Finland / Germany

13:05 – 16:00 BREAK

15:00 – 18:00 Meeting of Project "Research and Innovation Strategy for Lviv Polytechnic National University dedicated to White-Emitting Organic Lighting Systems (HELIOS)", EU Research and Innovation Funding Programme "Horizon Europe" (Chairperson Dmytro Volyniuk)

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

AUGUST 27, THURSDAY

Chairperson Andrei Kholkin

8:30 – 9:00 Registration

9:00 – 9:45 From Polymer Grafting to Messenger Materials and Sustainable Metamaterials

Andreas Fery / Institut für Polymerforschung Dresden and Technical University Dresden, Germany

9:45 – 10:30 Tetrapods Based Advanced Materials for Advanced Technologies

Yogendra Kumar Mishra / University of Southern Denmark, Denmark

10:30 – 11:15 Micro and Nanoencapsulation for Preservation and Delivery of Biomolecules

Petras Rimantas Venskutonis / Kaunas University of Technology, Lithuania



11:15 – 11:35 COFFEE BREAK

Chairperson Li-Yin Chen

11:35 – 12:20 Next-Generation Energy Storage: The Emerging Role of Gel Polymer Electrolytes

Amrita Jain / Polish Academy of Sciences, Poland

12:20 – 13:05 Advancing Next-Generation Safe and Sustainable Zinc-Ion Energy Storage

Amar M. Patil / Kiel University, Germany

13:05 – 13:50 Thin Film Characterization by Ultra-Fast Nanoindentation Assisted Fatigue

Antanas Daugela / Nanometronix LLC, USA

13:50 – 15:00 BREAK

15:00 – 17:00 Poster Session with Voting for the Best Poster (Chairperson Tomas Tamulevičius)

17:00 – 17:30 Best Poster Awards and Conference Photo

AUGUST 28, FRIDAY

Chairperson Arvydas Ruseckas

9:00 – 9:45 From Molecule to Material: Impact of Cation Halogenation in Hybrid Systems

Maciej Ptak / Polish Academy of Sciences, Poland

9:45 – 10:30 Synthesis of LDH-Porphyrin Hybrid Materials and Their Application in Chromate(VI) Ion Sorption

Agnieszka Lipke / Maria Curie-Skłodowska University in Lublin / Vilnius University, Poland / Lithuania

10:30 – 11:00 Toward Scalable and Deployable Organic Gas Sensors: From Device Engineering to Real-World Environmental Systems

Li-Yin Chen / National Yang Ming Chiao Tung University, Taiwan



11:00 – 11:20 COFFEE BREAK

Chairperson Sigita Tamulevičiūtė

11:20 – 12:05 The Use of Luminescence in Bioactive Glasses

Anna Lukowiak / Polish Academy of Sciences, Poland

12:05 – 12:50 Ligand-Functionalized Inorganic Sorbents for Uranium and Lanthanide Uptake

Agnieszka Gładysz-Płaska / Maria Curie-Skłodowska University, Poland

12:50 – 13:00 Closing Remarks and Certificates

13:00 – 14:00 BREAK

14:00 – 16:00 Meeting of Project “Novel optical nanocomposite sensors for analysis of micro and macro elements in corn plants (SENS4CORN)”, EU Research and Innovation Funding Programme “Horizon Europe” (Chairperson Simas Račkauskas)