



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 Sigitas Tamulevičius

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)

Changes to the conference programme:

August 27, Thursday

Chairperson Maciej Ptak

8:30 – 9:00 Registration

9:00 – 9:45 **Andreas Fery** (Institut für Polymerforschung Dresden and Technical University Dresden, Germany)
From Polymer Grafting to Messenger Materials and Sustainable Metamaterials

~~9:45 – 10:30 **Yogendra Kumar Mishra** (University of Southern Denmark, Denmark)
Tetrapods Based Advanced Materials for Advanced Technologies~~

9:45 – 10:30 **Petras Rimantas Venskutonis** (Kaunas University of Technology, Lithuania)
Micro and Nanoencapsulation for Preservation and Delivery of Biomolecules

10:30 – 10:50 Coffee Break

Chairperson Li-Yin Chen

10:50 – 11:35 **Amrita Jain** (Polish Academy of Sciences, Poland)
Next-Generation Energy Storage: The Emerging Role of Gel Polymer Electrolytes

11:35 – 12:20 **Amar M. Patil** (Kiel University, Germany)
Advancing Next-Generation Safe and Sustainable Zinc-Ion Energy Storage

~~13:05 – 13:50 **Antanas Daugela** (Nanometronix LLC, USA)
Thin Film Characterization by Ultra-Fast Nanoindentation Assisted Fatigue~~

12:20 – 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**