

INDUSTRY DAY

FROM RESEARCH TO MARKET - WITH INDUSTRY IN THE ROOM

Institute of Solid State Physics, UL (ISSP, UL), 8 Kengaraga iela, Rīga

SENSING THE FUTURE

ENERGY • COMMUNICATIONS • ADVANCED MANUFACTURING

House of Science, University of Latvia, Jelgavas iela 3, Rīga

September 24, 2026

Registration



PROGRAMME

PART I	INDUSTRY DAY Institute of Solid State Physics, 8 Kengaraga iela, Rīga				
9:30	CHECK-IN OF PARTICIPANTS AND COFFEE				
10:00	OPENING OF THE EVENT PART I Dr. phys. Andris Anspoks, Director, ISSP, UL Dr. phys. Andrei Kholkin, ERA Chair, ISSP, UL, FeLow-D Dr. Smagul Karazhanov, ERA Chair, ISSP, UL, SWEB				
10:20	TECHNOLOGY SPOTLIGHTS Parallel Sessions <table><tr><th>SWEB</th><th>FeLow-D</th></tr><tr><td>Chairman • Dr. Juris Purans • "Scalable, Sustainable, and Smart Functional Coatings for Greenhouses, Optics, and Energy" / Dr. habil. phys. Smagul Karazhanov, Leading Researcher, Thin Films Laboratory, ISSP UL • "Metallic Nanoparticles and Nanowires for Additive Manufacturing" / Dr. phys. Boris Polyakov, Leading researcher, Thin Films Laboratory, ISSP, UL • "Scalable magnetron sputtering of photochromic rare-earth oxyhydride thin films for smart-window applications" / Dr. phys. Martins Zubkins, Leading researcher, Thin Films Laboratory, ISSP, UL Challenging the Science: From Research to Market / Industry feedback & Questions</td><td>Chairman • Dr. Eriks Birks • "Magnetolectric composites for sensing and biomedicine" / Prof. Dr. phys. Andrei Kholkin, ERA Chair, ISSP, UL • "Biomimetic Spider Silk for Medical Applications", Sandra Treide, "PrintyMed", Medical Lead • "The advances of inanoEnergy in Industrial Energy harvesting"/ Dr. Andre Pereira, Chief Technological Office, "inanoEnergy", Portugal "Integrated Microfluidic Platforms for Water Treatment and Real-Time Optical Monitoring" / Dr. phys. Shadab Dabagh, researcher Laboratory of Optical Materials ISSP LU Challenging the Science: From Research to Market / Industry feedback & Questions</td></tr></table>	SWEB	FeLow-D	Chairman • Dr. Juris Purans • "Scalable, Sustainable, and Smart Functional Coatings for Greenhouses, Optics, and Energy" / Dr. habil. phys. Smagul Karazhanov, Leading Researcher, Thin Films Laboratory, ISSP UL • "Metallic Nanoparticles and Nanowires for Additive Manufacturing" / Dr. phys. Boris Polyakov, Leading researcher, Thin Films Laboratory, ISSP, UL • "Scalable magnetron sputtering of photochromic rare-earth oxyhydride thin films for smart-window applications" / Dr. phys. Martins Zubkins, Leading researcher, Thin Films Laboratory, ISSP, UL Challenging the Science: From Research to Market / Industry feedback & Questions	Chairman • Dr. Eriks Birks • "Magnetolectric composites for sensing and biomedicine" / Prof. Dr. phys. Andrei Kholkin, ERA Chair, ISSP, UL • "Biomimetic Spider Silk for Medical Applications", Sandra Treide, "PrintyMed", Medical Lead • "The advances of inanoEnergy in Industrial Energy harvesting"/ Dr. Andre Pereira, Chief Technological Office, "inanoEnergy", Portugal "Integrated Microfluidic Platforms for Water Treatment and Real-Time Optical Monitoring" / Dr. phys. Shadab Dabagh, researcher Laboratory of Optical Materials ISSP LU Challenging the Science: From Research to Market / Industry feedback & Questions
SWEB	FeLow-D				
Chairman • Dr. Juris Purans • "Scalable, Sustainable, and Smart Functional Coatings for Greenhouses, Optics, and Energy" / Dr. habil. phys. Smagul Karazhanov, Leading Researcher, Thin Films Laboratory, ISSP UL • "Metallic Nanoparticles and Nanowires for Additive Manufacturing" / Dr. phys. Boris Polyakov, Leading researcher, Thin Films Laboratory, ISSP, UL • "Scalable magnetron sputtering of photochromic rare-earth oxyhydride thin films for smart-window applications" / Dr. phys. Martins Zubkins, Leading researcher, Thin Films Laboratory, ISSP, UL Challenging the Science: From Research to Market / Industry feedback & Questions	Chairman • Dr. Eriks Birks • "Magnetolectric composites for sensing and biomedicine" / Prof. Dr. phys. Andrei Kholkin, ERA Chair, ISSP, UL • "Biomimetic Spider Silk for Medical Applications", Sandra Treide, "PrintyMed", Medical Lead • "The advances of inanoEnergy in Industrial Energy harvesting"/ Dr. Andre Pereira, Chief Technological Office, "inanoEnergy", Portugal "Integrated Microfluidic Platforms for Water Treatment and Real-Time Optical Monitoring" / Dr. phys. Shadab Dabagh, researcher Laboratory of Optical Materials ISSP LU Challenging the Science: From Research to Market / Industry feedback & Questions				
12:00	GUIDED LAB TOUR Roll-to-Roll / Thin Films Laboratory (SWEB) OPM equipment / Optical Materials Laboratory (FeLow-D)				
13:00	TRANSFER to the Science House, University of Latvia Academic Centre				
PART II	SENSING THE FUTURE ENERGY COMMUNICATIONS ADVANCED MANUFACTURING University of Latvia House of Science, Jelgavas iela 3, Rīga				
13:30	NETWORKING LUNCH				
14:30	OPENING OF THE EVENT PART II Dr. phys. Andris Anspoks, Director, ISSP, UL				
14:40	FIRESIDE CHAT WITH PROF. DR. KOEN BERTELS, FPGA House & Unveil, Professor of Quantum Computer Engineering at Ghent University in Belgium "Quantum Computing, DNA Data Storage and the Unveil model", Professor of Quantum Computer Engineering at Ghent University in Belgium				
16:10	COFFEE BREAK				
16:30	TECHNOLOGY SPOTLIGHTS & INDUSTRY REALITY CHECK Technology pitches showcasing advanced research projects with high industrial potential and impact, followed by an industry reality check on their relevance, applications and potential for real-world adoption. PITCHES: · Optical-fibre temperature sensing over an extended temperature range · Contactless optical/laser technology for rapid antibacterial resistance assessment · Hybrid integrated photonics combining inorganic photonic platforms with polymers · Lightweight, flexible multilayer EMI-absorbing material for telecom and electronic systems · Printed plasmonic and thermochromic functional inks/coatings for energy-saving smart windows INDUSTRY FEEDBACK Ainars Ozols, Chief Technology Officer, SIA "Baltic Photonics" Ilmārs Osmanis, Serial Entrepreneur, Founder of "Lightspace Group Inc.", Visionary of Multifocal AR and Volumetric Displays, "Lightspace Labs" Nikita Kazakevics, Head of Innovation Development Division, Ventures Department, SIA "Latvijas Mobilais Telefons"				
17:20	COLLABORATION SPRINT: THE 40-SECOND MATCHMAKER Ready to find your next breakthrough partner? This high-energy session flips the microphone to the audience for a rapid-fire round of 40-second lightning introductions. A perfect opportunity to broadcast your profile, scan the room, and map out exactly who you need to connect with during the afterparty!				
18:00	AFTERPARTY / NETWORKING				

INDUSTRY DAY organised by: SWEB Project ("Smart Windows for Zero Energy Buildings") and FeLow-D Project ("Low-Dimensional Ferroelectrics for Advanced Electronic and Biomedical Devices")
SENSING THE FUTURE organised by the University of Latvia & ISSP UL within the BioPhoT Programme