

INDUSTRY DAY

SENSING THE FUTURE

FROM RESEARCH TO MARKET - WITH INDUSTRY IN THE ROOM

ENERGY · COMMUNICATIONS · ADVANCED MANUFACTURING

Institute of Solid State Physics, UL (ISSP UL), 8 Kengaraga Street, Riga

House of Science, University of Latvia, 3 Jelgavas Street, Riga

September 24, 2026

Registration



PROGRAMME

PART I	INDUSTRY DAY Institute of Solid State Physics, UL, 8 Kengaraga Street, Riga				
9:30	CHECK-IN OF PARTICIPANTS AND COFFEE				
10:00	OPENING OF THE EVENT PART I 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><td>SWEB</td><td>FeLow-D</td></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 • "GroGlass on the Hard Realities of Commercializing Functional Glass Coatings" / Dr. Andris Voitkans, Chief Scientist at Groglass • "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, Co-founder of Inanoenergy, "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 • "GroGlass on the Hard Realities of Commercializing Functional Glass Coatings" / Dr. Andris Voitkans, Chief Scientist at Groglass • "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, Co-founder of Inanoenergy, "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
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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, 3 Jelgavas Street, Riga				
13:30-14:15	NETWORKING LUNCH 7th floor, ROOM 747				
14:20	OPENING OF THE EVENT PART II ROOM 106 Enno Ence, Vice-Rector for Development at the University of Latvia				
14:25	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				
15:50	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  BLADELIFE – Early Detection of Wind Turbine Blade Erosion  FRESHWAVE – Optical Sensor for Smart Food Packaging 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” Tomass Liepnieks, Strategy Management Director, AS Sadales tīkls Romāns Tjurins, Head of Portfolio Management and Market Research, Baltics and Poland, Enefit				
16:40	COFFEE BREAK				
17:00	COLLABORATION SPRINT: THE 40-SECOND MATCHMAKER ROOM 401 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!				
17:40	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