

NEWSLETTER

INDUSTRY SECTOR

SMART COATINGS INDUSTRY DAY 2025 21 NOVEMBER 2025



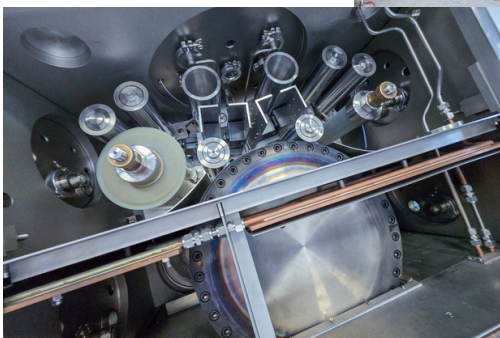
Industry Day 2025 on coating technologies by the SWEB project

On 21 November 2025, the Institute of Solid State Physics, University of Latvia (ISSP UL), opened its doors to a new circle of Latvian industrial stakeholders, welcoming them to the Smart Windows for Zero Energy Buildings – SWEB Industry Day 2025.

Unlike previous years, this gathering focused on companies beyond SWEB's established collaboration network (firms from architecture, construction, coatings, materials processing, and applied photonics) whose needs and ambitions increasingly intersect with the scientific advancements taking place at ISSP UL.

The SWEB launches Roll-to-Roll (R2R) deposition equipment.

The SWEB project team and the Institute of Solid State Physics UL has marked an important milestone with the official launch of its reactive sputtering Roll-to-Roll (R2R) deposition equipment. This achievement is a breakthrough for the Thin Film Laboratory and positions Latvia at the forefront of advanced materials research in Widening countries. With this installation, ISSP UL is now the only research center in the Baltic States to operate such technology, creating unique opportunities to push the boundaries of science and strengthen collaboration with industry.



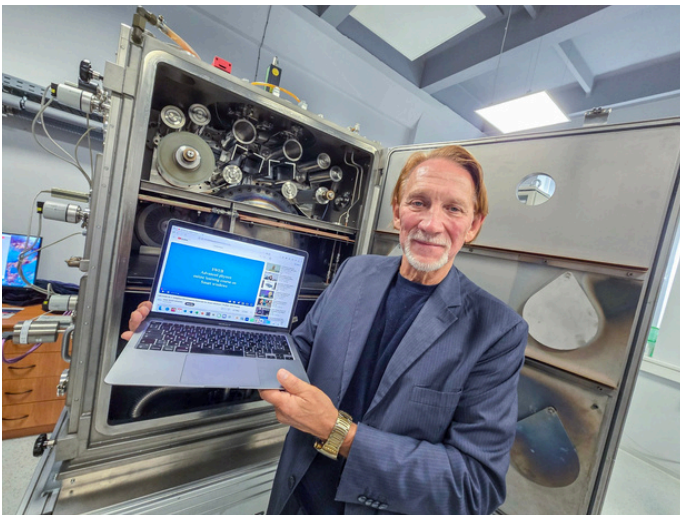
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SWEB project continues its school outreach.

On 30 September 2025 the SWEB project continued its tradition of engaging young minds in STEM. As part of our school outreach activities, Dr. Boris Polyakov, SWEB WP3 lead and head of the Additive Manufacturing group at the Institute of Solid State Physics UL, delivered a lecture at Bauska State Gymnasium.



The SWEB launches the Advanced Physics Online Learning Course.

The SWEB team is proud to announce an important milestone in its journey toward excellence and sustainability: the launch of the Advanced Physics Online Learning Course on Smart Windows, now freely available on the [SWEB YouTube channel](#)



Seminars by Dr. Carl M. Lampert

On 12th of November 2025 SWEB project team hosted a seminar by Dr. Carl M. Lampert, a leading expert in the field of chromogenic and electrochromic materials.

On 13th of November 2025, Dr. Carl M. Lampert offered young researchers a rare, behind-the-scenes look into the world of scientific publishing and the standards expected by top journals.



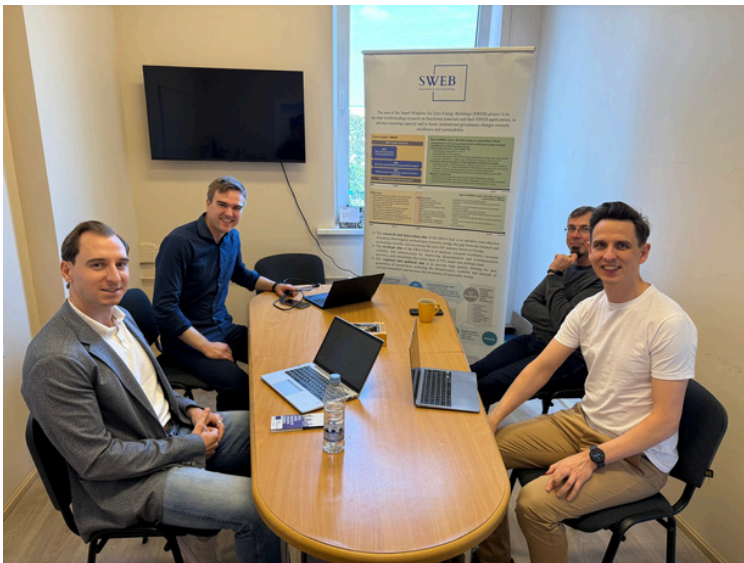
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Strengthening Latvia's regions – SWEB project team in Daugavpils.

On October 8, 2025, the SWEB project team visited Daugavpils University's G. Liberts Innovative Microscopy Centre, marking an important step in strengthening Latvia's regional research and education ecosystem. Building on the partnership initiated earlier this year, the visit reaffirmed SWEB's commitment to balanced regional development within the European Research Area (ERA).



The SWEB team welcomed representatives from AVL

On September 3, the SWEB team welcomed representatives from AVL, a global leader in mobility technologies, to explore collaboration opportunities in hydrogen, power electronics, automotive, and aviation sectors. AVL experts presented their latest activities and strategic directions, opening the floor for a lively exchange of ideas.



Vacuum

Available online 7 November 2025, 114892
In Press, Journal Pre-proof [What's this?](#)



Scaling up photochromic thin films with antimicrobial functionality: Roll-to-Roll deposition of YHO and YHO/Cu coatings

M. Zubkins¹, A. Fedotovs^{1,2}, V. Vibornis¹, Z. Rudevica³, K. Spunde³, E. Strods¹, E. Letko¹, K. Kundzins¹, K. Korotkaja³, A. Zajakina³, J. Purans¹

¹ Institute of Solid State Physics, University of Latvia, Kengaraga 8, LV-1063, Riga, Latvia

² Sidrabe Vacuum, Ltd, Krustpils 17, LV-1073, Riga, Latvia

³ Latvian Biomedical Research and Study Centre (LBMC), Ratsupites 1, LV-1067, Riga, Latvia

New publication on scaling up photochromic thin films.

The Thin Films Laboratory's latest article, "Scaling up photochromic thin films with antimicrobial functionality: Roll-to-Roll deposition of YHO and YHO/Cu coatings", has been published in the journal Vacuum (Elsevier):

<https://doi.org/10.1016/j.vacuum.2025.114892>