

Tuesday, May 25

09.00	Tutorial	
	Sputtering Technologies	Dr. Matthias Fahland
	Ultra-thin-glass; mechanical reliability, panel level packaging	Dr. Wiebke Langgemach
	Applications of Electron Beam Technology	Dr. Stefan Saager
	Web charging in roll-to-roll electron beam evaporation on polymer films	Bastian Zeis
12.00	Opening and Welcome	Prof. Dr. Elizabeth v. Hauff Dr. Cindy Steiner
12.10	Keynote Lecture	Dr. Matthias Fahland
12.35	Session 1: Scalable Manufacturing of Flexible Photovoltaics	Chair: Dr. Michael Hoffmann
	Flexible photovoltaics enable lightweight, conformable solar-energy generation on surfaces and in applications inaccessible to conventional rigid modules. Scalable manufacturing is a key requirement for transferring flexible photovoltaics from laboratory-scale development to commercial applications. This session examines materials, processes, and equipment for solar cells fabricated on flexible substrates, with a particular focus on roll-to-roll manufacturing of perovskite and organic photovoltaics. Topics include coating, printing, vacuum deposition, laser processing, interconnection, encapsulation, process control, reliability, and sustainability. The session highlights pathways that link device performance with robust, cost-effective, and industrially scalable production of flexible photovoltaic modules.	
13.45	Coffee Break	
14.10	Session 2: Battery Technologies – Driving sustainable energy innovation	Chair: Claus Luber
	The energy transition is progressing worldwide, but many challenges remain unresolved. Batteries play a decisive role in the ecologically sustainable design of our energy systems. Various strategies and manufacturing technologies are competing with each other on the market in order to realize the required efficiency and cost savings. Thin-film coatings and layer systems produced using vacuum coating technologies play an important role in this. The session 'Battery Technologies – Driving sustainable energy innovation' focuses on roll-to-roll vacuum coating technologies for next generation Li-ion batteries and beyond.	
15.20	Coffee Break	
15.55	Session 3: Korean-German partnership: New window technologies for energy related topics	Chair: Dr. Matthias Fahland
	Improving the energy efficiency of buildings is essential for reducing global energy consumption and carbon emissions. Windows play a key role, influencing both heat losses in winter and solar heat gains in summer. While advanced glazing and vacuum-coated solar control solutions have significantly improved performance, cost-effective retrofit options for existing buildings remain limited. This session focuses on innovative solar control films and functional coatings for energy-efficient glazing. Special attention is given to a Korean-German collaboration that developed a wet-coated polymer film as an alternative to conventional vacuum-coated technologies. Topics include coating materials, optical performance, durability, retrofit applications, and pathways toward industrial implementation.	
17.05	Closing Day 1	
17.10	Bio Break	
17.20	Lab Tour	
18.10	Dinner including Poster Session	

Wednesday, May 26

08.30	Session 4: Functionalization of films for sustainable packaging	Chair: Jan Hesse
	Discover how flexible coating technologies can deliver sustainable, high-performance packaging under the Packaging and Packaging Waste Regulation (PPWR) while meeting stringent food-contact requirements. The session spans conventional and bio-based plastic films as well as paper, highlighting recyclable barrier and sealing solutions, safe material design, migration control, and pathways from regulatory compliance to industrial implementation.	
09.40	Coffee Break	
10.10	Session 5: From Data Streams to Process Intelligence: Machine Learning and AI for Roll-to-Roll Coating	Chair: Jens Drechsel
	Roll-to-roll manufacturing creates data at every step – from coating and curing to in-line inspection and final product tests. Yet this information is often stored separately and used only after a problem occurs. This session explores how practical data management, machine learning and AI can connect process and quality data for faster decisions in production. Topics include learning from limited data, detecting defects early, making coatings more reliable, reducing waste and predicting maintenance needs. Applications range from recyclable packaging and barrier films to optical coatings and flexible electronic devices.	
11.20	Coffee Break	
11.50	Session 6: Multifunctional films and smart surfaces	Chair: Dr. Stephanie Lukoschek
	... coming soon	
12.50	Closing Remarks and Lunch	