

Program Day I – Coating technologies – what is the next thing?

Tuesday, November 26th, 2024

9.30 am		Registration for short course
10.00 am	– 12.15 pm	Short course – Basics of slot die coating and drying COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre, Harmen Rooms – Manager R&D
12.15 pm	– 1.00 pm	Lunch break
1.00 pm	– 1.15 pm	Introduction Coatema COATEMA COATING MACHINERY GMBH, Thomas Kolbusch – Director Sales, Marketing, Technology, VP
1.15 pm	– 1.45 pm	The Role of Basis Weight in Electrode Coating SCANTECH, Germany, Leon Onorio – Manager - Sales & Business Development
1.45 pm	– 2.15 pm	Fully automated giga fab for OPV solar cells OET (ORGANIC ELECTRONIC TECHNOLOGIES P.C.), Greece, Evangelos Mekeridis – CTO
2.15 pm	– 2.45 pm	The need for OPV and perovskite products made in Europe for solar, batteries and fuel cells ARISTOTLE UNIVERSITY OF THESSALONIKI, Greece, Prof. Stergios Logothetidis – Lab for Thin Films-Nanobiomaterials-Nanosystems & Nanometrology (LTFN)
2.45 pm	– 3.15 pm	2D Inline thickness measurement with a polarization camera INSTITUT FÜR FERTIGUNGSTECHNIK UND PHOTONISCHE TECHNOLOGIEN, TU Wien, Ferdinand Bammer
3.15 pm	– 3.45 pm	Spatial ALD development R2R SALD B.V., Netherlands, Erik Kremers – CTO
3.45 pm	– 4.00 pm	Coffee break
4.00 pm	– 4.30 pm	Mastering materials behaviour – Characterisation of interfaces to optimise product MATERIALSXPERTISE, Netherlands, Dr. Mariëlle Wouters – CEO
4.30 pm	– 5.00 pm	Non-contact measurement of sheet resistance of conductive layers on R2R applications NAGY INSTRUMENTS, Germany, Tim Emmerich – Technical Sales
5.00 pm	– 5.15 pm	Overview on the trials in the afternoon
5.15 pm	– 6.00 pm	Trials: ✓ Trial 01: Slot die coating with conductive films and inline measurement ✓ Trial 02: Inline web vibration measurement Supplier exhibition Haehne GmbH: Web tension control and force measurement in coating and converting processes ESWE-Flex Walzen: Specialist with tradition – roller diversity from ESWE-FLEX Heliosonic GmbH: Laser to print fuel cells Dr. Schenk: EasyInspect: local defects, measurements and material properties KET Market: Bringing all partners together BST: What is needed for intermittent coatings – Layer inspection and coating control Laserline: High Power Lasers for Drying and Heat treatment Keyence: Thickness measurements Nagy Instruments:
6.00 pm	– 6.15 pm	Panel discussion

Tuesday evening

6.30pm **Get-together dinner**

Program Day II – Coating technologies – what is the next thing?

Wednesday, November 27th, 2024

9.00 am		Welcome	
		COATEMA COATING MACHINERY GMBH, Thomas Kolbusch – Director Sales, Marketing, Technology, VP	
9.15 am	–	9.45 am	Laser drying of battery anodes
			COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre
9.45 am	–	10.15 am	How to save energy through data
			EW-TEC, Germany, Michael Mohr – IIoT Engineer
10.15 am	–	10.45 am	Coating Control – intelligent networked edge alignment for renewable energy
			BST GMBH, Germany, Kai Prah – Area Sales Manager – New Energy
10.45 am	–	11.00 am	Coffee break
11.00 am	–	11.30 am	Digital CCM fabrication for fuel cells
			HELIOSONIC – ALTANA AG, Germany, Dr. Frank Walter – Head of consumables & application development Heliosonic
11.30 am	–	12.00 pm	Hyperspectral cameras for quality control
			KET MARKET, Germany, André Wahl – Technical Sales Director FRAUNHOFER IWS, Germany, Alexander Kabardiadi-Virkovski – Group Lead
12.00 pm	–	12.30 pm	Surface inspection and measurement solutions for web material used in fuel cells
			KEYENCE, Germany, Johannes Schuler – Business Development Optical measurement technology
12.30 pm	–	1.30 pm	Lunch break
1.30 pm	–	2.00 pm	Optimal design of coating and laminating machines to reduce energy consumption and CO2
			KROENERT GmbH & Co KG, Germany, Andrea Glawe – Sales Director Kroenert
2.00 pm	–	2.30 pm	Overview on Coatema R&D projects
			COATEMA COATING MACHINERY GMBH, Harmen Rooms – Manager R&D
2.30 pm	–	3.30 pm	Trials:
			✓ Trial 01: LIFT digital printing (Heliosonic)
			✓ Trial 02: Roll-to-Roll battery coating lab scale with integrated quality control system (Keyence)
			✓ Trial 03: Digital printing of silver inks for printed electronics (Heliosonic)
			Supplier exhibition
			Haehne GmbH: Web tension control and force measurement in coating and converting processes
			ESWE-Flex Walzen: Specialist with tradition – roller diversity from ESWE-FLEX
			Heliosonic GmbH: Laser to print fuel cells
			Dr. Schenk: EasyInspect: local defects, measurements and material properties
			KET Market: Bringing all partners together
			BST: What is needed for intermittent coatings – Layer inspection and coating control
			Laserline: High Power Lasers for Drying and Heat treatment
			Keyence: Thickness measurements
			Nagy Instruments:
3.30 pm	–	3.45 pm	Q&A session and closing remarks