

22nd international Coating Symposium



Program Day I – Renewable energies for Net Zero by 2025

Tuesday, November 7th, 2023

9.30 am Registration for short course

10.00 am – 12.15 pm Slot die coating thin layers and low viscosity

COATEMA COATING MACHINERY GMBH, Thomas Exlager, Dr. Pegah Shakeri, Kira Grefkes, Harmen Rooms

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 Spatial Atomic Layer Deposition (ALD) for batteries, fuel cells, packaging and solar

SALD B.V., Netherlands, Erik Kremers – CTO

1.45 pm – 2.15 pm OPV development to the Giga Fab (Flex2Energy)

OET (ORGANIC ELECTRONIC TECHNOLOGIES P.C.), Greece, Evangelos Mekeridis – CTO

2.10 pm – 2.30 pm Sustainable pumps for battery production

NETZSCH PUMPEN & SYSTEME GMBH, Erwin Weber, EMEA-Direktor

2.30 pm – 3.00 pm Quality control systems inline for fuel cells

DR. SCHENK GMBH, Germany, Martin Lehmköster – Sales Manager

3.00 pm – 3.30 pm Fuelcell2Print: Digital material deposition for catalyst coated membrane production

HELIOSONIC – ALTANA AG, Germany, Dr. Frank Walter – Head of consumables & application development Heliosonic

3.30 pm – 4.00 pm Coffee break

4.00 pm – 4.30 pm Coating Control – intelligent networked edge alignment for renewable energy

BST GMBH, Germany, Kai Prael – Area Sales Manager – New Energy

4.30 pm – 5.00 pm Open innovation in Europe to support green transition of SME and industry

KET MARKET, Germany, Dr. John Fahlteich – Managing Director

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

✓ Trial 02: Screen printing

Supplier exhibition

Heliosonic:	Laser to print fuel cells
Keyence:	Thickness measurements
BST:	What is needed for intermittent coatings – Layer inspection and coating control
Dr. Schenk:	EasyInspect: local defects, measurements and material properties
Ket Market:	Bringing all partners together
Netzsch:	Pumping and dosing systems
Haehne:	Web tension control and force measurement in coating and converting processes
Isra Surface Vision:	Process excellence for battery production through vision data: Enhanced automated inline inspection for cell components
Sequip:	Agglomeration detection under process condition

6.00 pm – 6.15 pm Panel discussion

Tuesday evening

6.30 pm Shuttle to conference event

6.45pm Get-together dinner – Venue: Culinario, Römerstraße 40, 41539 Dormagen

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Program Day II – Renewable energies for Net Zero by 2025

Wednesday, November 8th, 2023

9.00 am		Welcome COATEMA COATING MACHINERY GMBH, Thomas Kolbusch – Director Sales, Marketing, Technology, VP
9.15 am	– 9.45 am	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)
9.45 am	– 10.15 am	Simulation – Digital twin in coating industry COATEMA COATING MACHINERY GMBH, Dr. Pegah Shakeri – R&D Manager
10.15 am	– 10.45 am	The role of slitting technology for reaching Net Zero by 2025 – challenges & chances DIENES WERKE FÜR MASCHINENTEILE GMBH & CO. KG, Germany, Julian Supe-Dienes – Sales Director
10.45 am	– 11.00 am	Coffee break
11.00 am	– 11.30 am	High efficient diode lasers for drying applications of electrodes and beyond LASERLINE GMBH, Germany, Dr.-Ing. Simon Britten – Technology Manager / New Business Development
11.30 am	– 12.00 pm	Inline quality control system for organic electronics SEMILAB FÉLVEZETŐ FIZIKAI LABORATÓRIUM ZRT., Hungary, Christophe Defranoux – R&D Marketing Manager
12.00 pm	– 12.30 pm	Surface inspection and measurement solutions for web material used in fuel cells KEYENCE DEUTSCHLAND GmbH, Germany, Johannes Schuler – Business Development Optical measurement technology
12.30 pm	– 1.30 pm	Lunch break
1.30 pm	– 2.00 pm	Overview on Coatema R&D projects COATEMA COATING MACHINERY GMBH, Harmen Rooms – Manager R&D
2.00 pm	– 2.30 pm	Process optimization enabled by Digital Twins REAL-TIME SYSTEMS GMBH, Germany, Jürgen Kreis, Director Business Development Solutions
2.30 pm	– 3.15 pm	Trials: ✓ Trial 01 – 5-Roller-system and flotation dryer demonstration ✓ Trial 02 – Slot die coating and laser drying Supplier exhibition Heliosonic: Laser to print fuel cells Keyence: Thickness measurements BST: What is needed for intermittent coatings – Layer inspection and coating control Dr. Schenk: EasyInspect: local defects, measurements and material properties Ket Market: Bringing all partners together Netzsch: Pumping and dosing systems Haehne: Web tension control and force measurement in coating and converting processes Isra Surface Vision: Process excellence for battery production through vision data: Enhanced automated inline inspection for cell components Sequip: Agglomeration detection under process condition
3.15 pm	– 3.30 pm	Q&A session and closing remarks