

# 21<sup>st</sup> international Coating Symposium



## Program Day I – Focus Battery, Fuel cell

Tuesday, November 8<sup>th</sup>, 2022

9.30 am		<b>Registration for Masterclasses Coating (theory and practice)</b>
10.00 am	– 12.30 pm	<b>Masterclasses slot die coating and drying</b>  COATEMA COATING MACHINERY GMBH, Thomas Exlager, Dr. Julian Koc-Richter, Harmen Rooms, Kira Stephan
12.30 pm	– 1.15 pm	<b>Lunch break</b>
1.15 pm	– 1.45 pm	<b>New developments in coating, printing and laminating</b>  COATEMA COATING MACHINERY GMBH, Thomas Kolbusch, Director Sales, Marketing, Technology, VP
1.45 pm	– 2.15 pm	<b>New technologies in fuel cells</b>  FRAUNHOFER ISE, Dr.-Ing. Roman Keding, Research production fuel cell
2.15 pm	– 2.45 pm	<b>Laser drying of battery electrodes</b>  FRAUNHOFER-INSTITUT FÜR LASERTECHNIK ILT, Delil Idris Demir, Research associate
2.45 pm	– 3.15 pm	<b>Process control – Proactive error prevention strategy for web-material production processes</b>  BST GMBH, Klaus Hamacher, Director New Business Development
3.15 pm	– 3.45 pm	<b>Measurement solutions for electrodes and fuel cell components</b>  KEYENCE DEUTSCHLAND GMBH, Johannes Schuler, Business Development Optical Inline Metrology
3.45 pm	– 4.00 pm	<b>Coffee break</b>
4.00 pm	– 4.30 pm	<b>Overview on the trials in the afternoon</b>
4.30 pm	– 5.45 pm	<b>Trials:</b>  ✓ Trial 01 – Slot die theory (mistakes during slot die coating, meniscus fracture, chatter marks, particles)  ✓ Trial 02 – Fuel cell coating  <b>Supplier exhibition</b> Helmut Fischer: XRF Measurement of fuel cell inks Keyence: Fuel cell paste: Thickness measurements Sequip: Particle analytics under process conditions BST: What is needed for intermittent coatings – Layer inspection and coating control Netzsch: Pumping and dosing systems
5.45 pm	– 6.00 pm	<b>Panel discussion</b>

## Tuesday evening

6.00 pm Shuttle to conference event

6.30 pm Get-together Dinner – Venue: Culinario, Römerstraße 40, 41539 Dormagen

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## Program Day II – Focus Fuel cell, Measuring technologies industry 4.0

Wednesday, November 9<sup>th</sup>, 2022

9.00 am		<b>Welcome</b>	
		COATEMA COATING MACHINERY GMBH, Thomas Kolbusch – Director Sales, Marketing, Technology, VP	
9.15 am	–	9.45 am	<b>MEA production equipment</b>
			OPTIMA LIFE SCIENCE GMBH, Werner Volk, Business Development Manager
9.45 am	–	10.15 am	<b>Process optimization enabled by Digital Twins</b>
			ARENDAR IT SECURITY, Jürgen Kreis, Managing Director
10.15 am	–	10.45 am	<b>In-line monitoring platinum content for fuel cells membranes with XRF</b>
			HELMUT FISCHER GMBH, Dr. Marcus Glaum, Sales Inline Solutions
10.45 am	–	11.00 am	<b>Coffee break</b>
11.00 am	–	11.30 am	<b>Intelligent automation-cloud communication enables evolving production services</b>
			OFFCODE OY, Antti Takaluoma, Senior Specialist
11.30 am	–	12.00 pm	<b>Characterization of slurry and inks – Particle analytics under process conditions</b>
			SEQUIP S&E GMBH, Waldemar Purwin
12.00 pm	–	12.30 pm	<b>Sustainable pumps for battery production</b>
			NETZSCH PUMPEN & SYSTEME GMBH, Dominik Sinseder, Application Engineer
12.30 pm	–	1.30 pm	<b>Lunch break</b>
1.30 pm	–	2.00 pm	<b>Overview on Coatema R&amp;D projects</b>
			COATEMA COATING MACHINERY GMBH, Harmen Rooms, Manager R&D
2.00 pm	–	2.45 pm	<b>Trials:</b>
			✓ Intermittent battery coatings
			<b>Supplier exhibition</b>
			Helmut Fischer: XRF Measurement of fuel cell inks
			Keyence: Fuel cell paste: Thickness measurements
			Sequip: Particle analytics under process conditions
			BST: What is needed for intermittent coatings – Layer inspection and coating control
			Netzsch: Pumping and dosing systems
2.45 pm	–	3.00 pm	<b>Q&amp;A and closing remarks</b>