

# Slot Die Coating Masterclass



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## Program Day I – Tuesday, September 9<sup>th</sup>, 2025

9.00 am – 9.30 am **Welcome, course overview, safety briefing**

COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre

9.30 am – 11.00 am **Fundamentals of slot die coating**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

11.00 am – 11.15 am **Coffee break**

11.15 am – 12.15 pm **Mathematics behind slot die – Part 1**

COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert

12.15 pm – 1.00 pm **Lunch break**

1.00 pm – 2.00 pm **Mastering your materials**

MaterialsXpertise, Dr. Mariëlle Wouters – CEO

2.00 pm – 2.30 pm **Particle measurement**

ANTON PAAR GERMANY GMBH, Vanessa Fronk

2.30 pm – 3.00 pm **Viscosity measurement**

ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk)

3.00 pm – 3.30 pm **Contact angle measurement**

DATA PHYSICS, Peter Oberschachtsiek

3.30 pm – 3.45 pm **Coffee break (R&D centre) & safety clothes R&D centre**

3.45 pm – 4.00 pm **Preparation of trials – What is needed to coat?**

COATEMA COATING MACHINERY GMBH, Kira Grefkes, Manager R&D centre / Muammar Mor, Process Specialist

4.00 pm – 5.00 pm **Three groups:**

**Measurement viscosity**, ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk)

**Measurement contact angle**, DATA PHYSICS, Peter Oberschachtsiek

**Hands on session (Mounting the slot die)**, R&D team

5.15 pm **Transfer to social dinner event**

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## Program Day II – Wednesday, September 10<sup>th</sup>, 2025

8.30 am	–	8.35 am	<b>Welcome &amp; introduction</b> COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre
8.35 am	–	9.30 am	<b>Mathematics behind slot die coating – Part 2</b> COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert
9.30 am	–	10.15 am	<b>Rheology for non-Newtonian fluids</b> MaterialsXpertise, Dr. Mariëlle Wouters – CEO
10.15 am	–	10.30 am	<b>Coffee break</b>
10.30 am	–	11.30 am	<b>Advanced slot die coating and peripheral equipment</b> COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert
11.30 am	–	12.30 pm	<b>What comes after the coating? Fundamentals of drying technologies</b> COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone, Slot Die Expert
12.30 pm	–	1.15 pm	<b>The necessity of numerical simulations for slot die coating</b> COATEMA COATING MACHINERY GMBH, Klaus Peter Crone, Slot Die Expert / MaterialsXpertise, Dr. Mariëlle Wouters
1.15 pm	–	2.00 pm	<b>Lunch break</b>
2.00 pm	–	3.30 pm	<b>Three groups:</b> <b>Viscosity measurement of battery slurry</b> , ANTON PAAR GERMANY GMBH, Mario Krautschick (Marcel Mundhenk) <b>Particle analization</b> , ANTON PAAR GERMANY GMBH, Vanessa Fronk <b>Easycoater trials</b> , COATEMA COATING MACHINERY GMBH, Kira Grefkes – Manager R&D centre <b>Process optimisation and guarding</b> , BST GmbH, Kai Prah
3.30 pm	–	3.45 pm	<b>Coffee break (R&amp;D centre)</b>
3.45 pm	–	4.15 pm	<b>Trials– Slot die trouble shooting</b> COATEMA COATING MACHINERY GMBH, Slot Die Expert / Kira Grefkes - Manager R&D centre / Muammar Mor – Process Specialist
4.15 pm	–	4.30 pm	<b>Q&amp;A session and closing remarks</b>

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