

Slot Die Coating Masterclass

Program Day I – Wednesday, January 29th, 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 – 10.30 am **Particle characterization: Theory and practice**
ANTON PAAR GERMANY GMBH, Dr. Christoph Winkler

10.30 am – 10.45 am **Coffee break**

10.45 am – 12.15 pm **Rheology in rotation and oscillation for printing and coating**
ANTON PAAR GERMANY GMBH, Mario Krautschick

12.15 pm – 1.00 pm **Lunch break**

1.00 pm – 2.00 pm **Fundamentals and machinery for slot die coating**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert

2.00 pm – 2.30 pm **Guided tour Coatema R&D centre**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert

2.30 pm – 4.00 pm **Practical session 1: Rheology in rotation and oscillation**
ANTON PAAR GERMANY GMBH, Mario Krautschick

4.00 pm – 4.15 pm **Coffee break (R&D centre)**

4.15 pm – 5.15 pm **Practical session 2: Hands-on slot die assembly**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert / Muammar Mor – Process Specialist

5.15 pm **Transfer to social dinner event**

Program Day II – Thursday, January 30th, 2025

9.00 am – 9.05 am **Welcome**
COATEMA COATING MACHINERY GMBH, Kira Grefkes - Manager R&D centre

9.05 am – 9.50 am **Surface energy and surface tension for coating and drying**
MaterialsXpertise, Dr. Mariëlle Wouters

9.50 am – 11.00 am **The necessity of numerical simulations for slot die coating?! When, where and how?**
COATEMA COATING MACHINERY GMBH, Dr. Pegah Shakeri – R&D Manager / Dr. Klaus Peter Crone – Slot Die Expert

11.00 am – 11.15 am **Coffee break**

11.15 am – 11.45 am **Advanced slot die coating and peripheral equipment**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert

11.45 am – 12.15 pm **What comes after the coating? Fundamentals of drying technology**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert

12.15 pm – 1.00 pm **Lunch break**

1.00 pm – 1.45 pm **Practical session 3: Measurement of contact angle and surface tension**
DATA PHYSICS, Daniel Scholz

1.45 pm – 2.30 pm **Practical session 4: Slot die coating on sheets and rigid substrates**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert / Kira Grefkes - Manager R&D centre / Muammar Mor – Process Specialist

2.30 pm – 2.45 pm **Coffee break (R&D centre)**

2.45 pm – 4.00 pm **Practical session 5: Roll-to-roll slot die coating**
COATEMA COATING MACHINERY GMBH, Dr. Klaus Peter Crone – Slot Die Expert / Kira Grefkes – Manager R&D centre

4.00 pm – 4.30 pm **Q&A session and closing remarks**

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