

Extrusion Scale-up & Process Transfer

EUROPE, NORWAY

18 - 19 April 2024

Subject to minor changes

DAY ONE

Thursday, 18 April 2024

08:15	Registration
08:30	Introduction & Welcome
08:45	A Review of Extrusion Processing Theory - The Four Golden Rules
09:15	Development of Optimal Extruder Profiles
10:00	Morning Break
10:30	An Introduction to Dimensional Analysis
11:15	Modelling the Degree of Cook in Extruders
12:00	Lunch
13:00	Quantification of the Extrusion Process - The Mass & Energy Balance
13:45	Quantification of the Extrusion Process - Material Rheology
14:30	Quantification of the Extrusion Process - Weighted Average Total Strain (WATS)
15:15	Afternoon Break
15:45	Scale-up & Process Transfer – Part 1
16:30	Close Day One

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DAY TWO

Friday, 19 April 2024

08:30	Review of Day 1
08:30	Scale-up & Process Transfer – Part 2
09:15	Use of Dimensional Analysis – The Operational Characteristics of Extruders
10:00	Morning Break
10:30	Use of Dimensional Analysis – Design and Evaluation of Extrusion Dies
11:15	Use of Dimensional Analysis - Modelling of the Direct Expansion Process
12:00	Lunch
13:00	Use of Dimensional Analysis - Modelling of a Sheeting Die
13:45	Case Study: Scale-Up of Single Screw Extruders – Pasta Extrusion
14:30	Afternoon Break
15:00	Case Study: Scale-up of a Crispbread Extrusion Process
15:45	General Discussion
16:15	Close Day Two

