

Extrusion Scale-up & Process Transfer

EUROPE, NORWAY | 2 - 3 JUNE 2022

Program may be subject to minor changes.

DAY ONE

Thursday, 2 June 2022

Basic Principles

8:15	Registration
8:30	A Review of Extrusion Processing Theory - <i>The Four Golden Rules</i>
9:30	Development of Optimal Extruder Profiles
10:15	Morning Break
10:45	An Introduction to Dimensional Analysis
11:30	Modelling the Degree of Cook in Extruders
12:30	Lunch
13:15	Quantification of the Extrusion Process - <i>The Mass & Energy Balance</i>
13:45	Quantification of the Extrusion Process - <i>Material Rheology</i>
14:30	Quantification of the Extrusion Process - <i>Weighted Average Total Strain (WATS)</i>
15:30	Afternoon Break
16:00	Scale-up & Process Transfer – Part 1
16:45	General Discussion
17:00	Close Day One

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DAY TWO

Friday, 3 June 2022

Application of the Principles

8:30	Review of Day One
9:00	Scale-up & Process Transfer – Part 2
9:45	Use of Dimensional Analysis – <i>The Operational Characteristics of Extruders</i>
10:30	Morning Break
11:00	Use of Dimensional Analysis – <i>Design and Evaluation of Extrusion Dies</i>
11:45	Use of Dimensional Analysis - <i>Modelling of the Direct Expansion Process</i>
12:30	Lunch
13:15	Use of Dimensional Analysis - <i>Modelling of a Sheeting Die</i>
14:00	Case Study: Scale-Up of Single Screw Extruders – <i>Pasta Extrusion</i>
14:45	Afternoon Break
15:15	Case Study: Scale-up of a Crispbread Extrusion Process
16:15	General Discussion
16:45	Close of Course