

# Food & Feed Extrusion Technology

WERRIBEE

5 - 7 August 2024

Subject to minor changes

## DAY ONE

Monday, 5 August 2024

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08:15	<b>Registration</b>
08:30	Introduction & Welcome
08:45	Extrusion Processing
09:15	Principles of Extruder Configuration
10:00	<b>Morning Break</b>
10:15	The Role of Ingredients in Extrusion Processing
11:00	Raw Materials preparation -- Mixing & Grinding
11:45	The Role of the Preconditioner in Extrusion Processing
12:30	<b>Lunch</b>
13:15	The Role of Rheology in Extrusion Processing
13:45	The Screw and Die Characteristics
14:15	Principles of Die Design
15:00	<b>Afternoon Break</b>
15:15	Tutorial 1 -- Conductance vs. Open Area
16:00	Tutorial 2 -- Recipe Formulation Exercise
16:30	General Discussion
16:45	<b>Close Day One</b>

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## DAY TWO

Tuesday, 6 August 2024

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08:30	<b>Review of Day 1</b>
08:45	Product Texture Development
09:30	Causes and Effects of Extruder Instabilities
10:15	<b>Morning Break</b>
10:30	Single Screw Extruders vs Twin Screw Extruders
11:15	Optimal Extruder Screw profiles
12:00	<b>Lunch</b>
12:30	Tutorial 3 - Die Design & Extruder Configuration
13:15	Pilot Plant Demonstration &/or Processing Videos
14:00	Review & Discussion of Pilot Plant Trials
14:45	<b>Afternoon Break</b>
15:00	Product Drying Technology
15:45	Product Coating Technology
16:00	General Discussion
16:30	<b>Close Day Two</b>

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## DAY THREE

Wednesday, 7 August 2024

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08:30	<b>Review of Days 1 and 2</b>
08:45	Screw, Barrel and Die Plate Wear
09:45	<b>Morning Break</b>
10:00	Scale-up & Process Transfer
10:45	Effect of Processing on Extruded Feeds
11:30	Cooking Viscometry -- Measuring Ingredients & Product Quality
12:15	<b>Lunch</b>
13:00	Co-Extrusion Technology
13:45	Post-Extrusion Processing Technologies
14:00	Process Trouble Shooting
14:45	<b>Afternoon Break</b>
15:00	Extrusion Process Interactions
15:45	Quality Assurance and How to Achieve It
16:30	General Discussion
16:45	<b>End of Day 3</b>