

PLANNED PROGRAM

Food & Feed Drying Technology

CHILE | 26 - 27 OCTOBER 2023

Program may be subject to minor changes.

DAY ONE

Thursday, 26 October 2023

09:15	Introduction & Welcome
09:30	Dried Products & Their Quality
10:15	Basic Drying Theory
11:00	Morning Break
11:30	Drying Systems Used in the Food Industry
12:15	Water Activity: Basic Concepts & Sorption/Desorption Isotherms, Methods of Measurement.
13:00	Lunch
14:00	Water Activity: Relevance to Food Stability & The Drying Process
14:45	Principles of Mass & Energy Balances as Applied to Drying Processes Exercise: Using Mass & Energy Balance Techniques to Analyse Simple Drying System
15:30	Afternoon Break
16:00	Principles of Psychrometrics Tracing a Drying Process on a Psychrometric Chart
16:30	Mass & Energy Balance Applied to a More Complex Drying System – A Case Study
17:15	Aquafeed – The Sink/Float Problem & Case Hardening
17:45	Close Formal Presentations Day One

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DAY TWO

Friday, 27 October 2023

09:15	Review Day One
09:30	Modelling the Drying Curve - Practical Measurement/Modelling of Product Drying Curve & How it Can be Used
10:15	The Use of Dimensional Analysis to Optimise a Drying Process - An Industry Case Study
11:00	Morning Break
11:30	Design & Specification of Drying Systems
12:15	Case Study – Design of Belt Drying System for Vegetable Product
13:00	Lunch
14:00	Dryer Performance Comparison – Use of the Mass & Energy Balance
14:30	Specialised Drying Systems <ul style="list-style-type: none">› Fluidised Bed Drying› Vacuum & Freeze Drying› Spray Drying› Heat Pump Drying
15:15	Improving Efficiency of Established Drying Processes
16:00	Afternoon Break
16:30	Drying Process – Economic Analysis
17:15	Close of Course