

Food drying technology short course

Brisbane 17 & 18 November 2016

Program¹

Day 1

| | | |
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| 8.30 am | Welcome and introduction | |
| | Dried products and their quality | Gordon Young, FoodStream Pty Ltd and Henry Sabarez, CSIRO |
| | Basic drying theory | Gordon Young, FoodStream Pty Ltd |
| | Morning Break | |
| | Drying systems used in the food industry | Dennis Forte, FoodStream Pty Ltd |
| | Water activity: Basic concepts & sorption/desorption isotherms, methods of measurement | Gordon Young, FoodStream Pty Ltd |
| 12.15 pm | Lunch | |
| | Water activity: relevance to food stability and the drying process | Gordon Young, FoodStream Pty Ltd |
| | Principles of mass and energy balances as applied to drying processes (Exercise: Using mass and energy balance techniques to analyse simple drying system) | Gordon Young, FoodStream Pty Ltd |
| | Afternoon break | |
| | Principles of psychrometrics, tracing a drying process on a psychrometric chart | Gordon Young, FoodStream Pty Ltd |
| | Mass & Energy balance applied to a more complex drying system – A case study | Gordon Young, FoodStream Pty Ltd |
| 4.30 pm | End of day 1 | |

1. The following program may be subject to minor change

Day 2

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|-----------------|---|---|
| 8.30 am | Start of day 2 | |
| | Modelling the drying curve (practical measurement/modelling of product drying curve and how it can be used) | Dennis Forte, FoodStream Pty Ltd |
| | The use of dimensional analysis to optimise a drying process (an industry case study) | Dennis Forte, FoodStream Pty Ltd |
| | Morning break | |
| | Design and specification of drying systems | Gordon Young, FoodStream Pty Ltd |
| | Specialised drying systems | TBC, CSIRO |
| 12.00 pm | Lunch | |
| | <i>Pilot Plant visit</i> | |
| | Case studies of a range of drying technologies | Gordon Young, FoodStream Pty Ltd and Henry Sabarez, CSIRO |
| | Afternoon break | |
| | Improving efficiency of established drying processes – a case study | Gordon Young, FoodStream and Henry Sabarez, CSIRO |
| 4:15 pm | Course close | |