FOOD AND FEED EXTRUSION

CSIRO, Werribee, 5 to 7 August 2019

PLANNED COURSE PROGRAM

Please note: The following program may be subject to minor change

Day 1  Monday, 5 August

8:30  Introduction and welcome, Overview of the extrusion process (Gordon Young)

9:15  Extruder configurations (single and twin screw) (Dennis Forte)

10:15  Morning Tea

10:30  Basic science of extrusion (Gordon Young)

11:15  Role of rheology in extrusion processing (Dennis Forte)

12:15  Lunch

1:00  Principles of die design (Dennis Forte)

2:00  Ingredients and their effects (Gordon Young)

2:45  Afternoon tea

3:00  Product design example (Gordon Young)

3:45  Preconditioning for extrusion (Gordon Young)

4:30  Close Day 1
Day 2 Tuesday, 6 August

8:30 Texturisation during extrusion processing (Dennis Forte)
9:15 Causes and effects of instabilities during extrusion processing (Dennis Forte)
10:10 Morning Tea
10:30 Screw, barrel, and die-plate wear (Dennis Forte)
11:15 Single screw extruders vs twin screw extruders: An engineering analysis (Dennis Forte)
12:00 Lunch
12:45 Address by Clextral – Day sponsor
1:00 Demonstration in CSIRO Pilot Plant
3:00 Afternoon tea, Discuss plant observations
3:30 Optimal Extruder Configurations (Dennis Forte)
4:15 Close Day 2

Day 3 Wednesday, 7 August

8:30 Die design and extruder configuration examples (Dennis Forte)
9:15 Paste viscosity measurement and extruded product quality (Gordon Young)
10:00 Morning Tea
10:30 Scale-up and process transfer (Dennis Forte)
11:30 Drying technology related to extruded products (Gordon Young)
12:15 Lunch
1:15 Understanding Co-Extrusion Technology (Dennis Forte)
2:00 Extrusion trouble shooting (Gordon Young)
2:45 Afternoon tea
3:15 Extruded product quality assurance and how to achieve it (Dennis Forte)
4:00 Final discussion

Close of Course