

Short Course on  
**FOOD EXTRUSION TECHNOLOGY**

**Sion, Switzerland, 10 to 12 February 2020**

**PLANNED PROGRAM**

**Note: The following program may be subject to minor change**

**Day 1 Monday, 10 February**

- 8:15 Registration**
- 8:30** Introduction and welcome, Overview of the extrusion process (Gordon Young)
- 9:00** Extruder configurations (single and twin screw) (Dennis Forte)
- 10:00 Morning Break**
- 10:15** Basic science of extrusion (Gordon Young)
- 11:00** Role of rheology in extrusion processing
- Screw & Die Characteristics in Extrusion Processing (Dennis Forte)
- 12:00 Lunch**
- 13:00** Address by Baker Perkins – Day sponsor
- 13:15** Principles of die design (Dennis Forte)
- 14:15** Ingredients and their effects (Gordon Young)
- 15:00 Afternoon Break**
- 15:15** Product formulation exercise (Gordon Young)
- 16:00** Preconditioning for extrusion (Gordon Young)
- 16:45 Close Day 1**

## Day 2 **Tuesday, 11 February** Sponsored by Extrusion Expertise Excellence

- 8:30** Texturisation during extrusion processing (Dennis Forte)
- 9:15** Causes and effects of instabilities during extrusion processing (Dennis Forte)
- 10:00** **Morning Break**
- 10:30** Screw, barrel, and die-plate wear (Dennis Forte)
- 11:15** Single screw extruders vs twin screw extruders (Dennis Forte)
- 12:00** **Lunch**
- 13:00** Address by Day sponsor
- 13:15** Demonstration in HES-SO Pilot Plant
- 15:00** **Afternoon Break, Discuss plant observations**
- 15:30** Optimal Extruder Screw Profiles (Dennis Forte)
- 16:15** **Close Day 2**

## Day 3 **Wednesday, 12 February**

- 8:30** Extrusion Technology Workshop (Dennis Forte)
- 9:15** Paste Viscosity Measurement and Extruded Product Quality (Gordon Young)
- 10:00** **Morning Break**
- 10:30** Scale-up and process transfer (Dennis Forte)
- 11:15** Drying technology related to extruded products (Gordon Young)
- 12:00** **Lunch**
- 13:00** Address by Buhler – Day sponsor
- 13:15** Understanding Co-Extrusion Technology (Dennis Forte)
- 14:00** Extrusion trouble shooting (Gordon Young)
- 14:45** **Afternoon Break**
- 15:15** Extruded product quality assurance and how to achieve it (Dennis Forte)
- 16:00** Final discussion, Close of course