

PLANNED PROGRAM

# Food & Feed Extrusion Technology

UNITED KINGDOM

13 - 15 November 2023

Subject to minor changes.

## DAY ONE

Monday, 13 November 2023

Sponsored by

**Baker Perkins**  
schendprocess group



### Registration

Introduction & Welcome

Extrusion Processing

Principles of Extruder Configuration

### Morning Break

The Role of Ingredients in Extrusion Processing Raw

Materials preparation -- *Mixing & Grinding*

The role of the Preconditioner in Extrusion Processing

### Lunch

The Role of Rheology in Extrusion Processing

The Screw and Die characteristics

Principles of Die Design

### Afternoon Break

*Tutorial 1* -- Conductance vs. Open Area

*Tutorial 2* -- Recipe Formulation Exercise

General Discussion

### Close Day One

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## DAY TWO

Tuesday, 14 November 2023

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schenckprocess group



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### Review of Day 1 & Day Sponsor Introductions

Product Texture Development  
Causes and Effects of Extruder Instabilities

### Morning Break

Single Screw Extruders vs Twin Screw Extruders  
Optimal Extruder Screw Profiles

### Lunch

Tutorial 3 - Die Design & Extruder Configuration  
Product Drying Technology  
Product Coating Technology

### Afternoon Break

Pilot Plant Demonstration at National Centre for Food Manufacturing

### Close Day Two

Transfer to Baker Perkins facility (Peterborough)  
Course dinner



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## DAY THREE

Wednesday, 15 November 2023

### Review of Days 1 and 2

Screw, Barrel and Die Plate Wear

### Morning Break

Scale-up & Process Transfer

Effect of Processing on Extruded Feeds

Cooking Viscometry -- Measuring Ingredients & Product Quality

### Lunch

Co-Extrusion Technology

Post-Extrusion Processing Technologies

Process Trouble Shooting

### Afternoon Break

Extrusion Process Interactions

Quality Assurance and How to Achieve It

General Discussion

### End of Day 3



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