

PLANNED PROGRAM

Applied Food & Feed Extrusion Technology

THAILAND | 17 - 19 July 2023

Subject to minor changes.

DAY ONE

Monday, 17 July 2023

MORNING

Review of Extrusion Theory

Principles of Extruder Configuration

Role of Ingredients

Role of the Preconditioner

Role of Rheology in Extrusion Processing and the Screw and Die Characteristic

Principles of Die Design

Product 1 – Textured Vegetable Protein/Pet Food Extrusion

Review/Design

Raw Materials and Formulations

Screw Profile

Auxiliary Devices

Operating Conditions

— **Visit Pilot Plant – Observe TVP Production in Normal Operation (SSE)**

AFTERNOON

Product 2 - Third Generation Snack Pellet

Review/Design

Raw Materials and Formulations

Screw Profile

Auxiliary Devices

Operating Conditions

— **Extruder Trial Product 2**

Set up screw profile and produce third generation snack pellet using a TSE.



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DAY TWO

Tuesday, 18 July 2023

MORNING

Extrusion Theory

Causes and Effects of Extruder Instabilities
Coextrusion Technology

Product 3 - Co-Extruded Snack

Review/Design

Raw Materials and Formulations
Screw Profile
Auxiliary Devices
Operating Conditions

— **Extruder Trial Product 3**

Set up screw profile and produce a direct expanded snack with filling using a TSE.

AFTERNOON

Product 4 – Direct Expanded Breakfast Cereal

Review/Design

Raw Materials and Formulations
Screw Profile
Auxiliary Devices
Operating Conditions

— **Extruder Trial Product 4**

Set up screw profile and produce a direct expanded breakfast cereal using a TSE.



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DAY THREE

Wednesday, 19 July 2023

MORNING

Product 5 - High Moisture Meat Analog

Review/Design

Raw Materials and Formulations

Screw Profile

Auxiliary Devices

Operating Conditions

— **Extruder Trial Product 5**

Set up screw profile and produce a high moisture meat analog using a TSE.

AFTERNOON

Extrusion Theory

Extrusion Process Trouble Shooting

Quality Assurance and How to Achieve it

END OF PROGRAM

