

Programme Outline

- Monday: Theory – basics & overview
 - Raw material overview – including conventional and new ones
 - Feed processing: Overview and raw material flow
- Tuesday – Process focus
 - Raw material preparation: Particle size reduction, Mixing, Conditioning
 - Cooking and/or pellet shaping processes: Expander, Extruder, Pellet Press
 - Feed quality finalizing; Drying, infusion of liquid raw materials, Cooling
 - New technologies for new raw materials
- Wednesday
 - Demonstration in the pilot plant – particle size
 - New raw materials (e.g. algae, yeast, sustainability based on processing of new raw materials)
 - Effects of specific nutrients in some example animals (horse, pet food)
- Thursday
 - Demonstration in the pilot plant – pellet shaping
 - New raw materials
 - the functional ones and their physiological effects – case based lecture(s)
 - Health aspects
 - Some examples
- Friday
 - Additives – function on processability and nutrient availability
 - Raw materials – Continuing of topic from Thursday

Will be covered during the week

- Each PhD student present their topic – 5 – 10 Minutes each
- Group work
 - Discussion about selection of new raw materials – in both a technical and nutritional perspective
- Cases/Inspirations topics
 - The research Program «Foods of Norway» present their scope
 - Feed & genetics – Is tailormaking diets to animal genetics the way?
 - Assessment of feed quality – methodology and challenges – a first step on the way to modelling?
- Tour/short excursions
 - [NMBU – fish lab facility](#)
 - [NMBU – land animal facility \(the farm\)](#)