



# MODULE 6 | NUTRIENT EVALUATION POULTRY

TUESDAY 14 JUNE

**Energy and amino acids are the two most expensive components in a poultry diet. A good understanding of the nutritional needs of the animals is required to produce cost efficient diets. Therefore knowledge about nutrient evaluation systems and the effect of processing on nutrient utilizations is key.**

## **Learning objectives**

- To obtain knowhow on energy and protein evaluation to improve nutrient utilization and therefore feed efficiency.
- To obtain knowhow on calcium and phosphorus evaluation to improve calcium and phosphorus utilisation.

## Welcome and introduction

### 6.1 Energy evaluation

The basis of energy evaluation in poultry will be explained, including the nitrogen balance correction for the determination of the metabolisable energy (AMEn) content. Prediction of AMEn from digestible nutrient fractions will be discussed with some exercises for the participants showing to what end this can be used.

### 6.2 Protein and amino acid evaluation

Amino acids are important in poultry diet formulations, but different digestibility coefficients are used. What is the added value of diet optimization based on digestible amino acids and the ideal amino acid profile, as well as what other factors can affect amino acid digestibility and requirements.

### 6.3 Calcium and phosphorus evaluation

Backgrounds of the different phosphorus systems will be explained, and effects of dietary calcium on the utilization of phosphorus. In this presentation also the efficacy of phytase and the difference between different phytase products will be dealt with.

**Trainers:** Cees Kwakernaak, Karin van de Belt, Piero Agostini and Roger Davin

#### Remarks:

- Please be aware that SFR recommendations will not be presented during the course.
- This module will not focus on basic nutrition, like physiology of the intestinal tract and characteristics and digestion of different nutrients.
- For more knowledge on nutritional strategies it is recommended to (also) attend module 7, 8 and 9 Applied Poultry Nutrition.