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Editorial news and events

Conference report

Annual X Jubilee Winter School of Cattle Breeders organized by Cattle Breeding Department of Cracow Agricultural University (Prof. Jan Szarek - President and MSc. Justyna Żychlińska – Secretary) in cooperation with Cracow Section of Polish Society of Animal Production and supported by other animal research institutions was held traditionally in Zakopane from 18 to 22 March , 2002. In the conference took a part 165 participants from all Agriculture Universities in Poland, Institutes of Polish Academy of Sciences, Research Institute of Animal Production, experimental stations, breeding stations and institutions involved in breeding service or management. The lectures were attended by a high number of breeding practitioners. Speakers were invited from Polish scientific institutions and Czech Republic, France, Germany, Slovakia and Republic of South Arabia.

In several subject sessions 30 lectures and 47 original papers were presented on following topics: molecular genetics, population genetics, breeding methods, high-yields cows' nutrition, influence of microphysical phenomena on the production and health of cows, milking technology, resistance of cows to mastitis, cattle reproduction, cattle breeding organization, economics of milk production. Lectures were published in special issue of "Biuletyn Informacyjny Instytutu Zootechniki (40, 2, 233, 2002), original papers in "Roczniki Naukowe Zootechniki" (Suppl. 10,15, 2002) by Research Institute of Animal Production in Balice (Poland). One evening was devoted to "meeting of science and practice". The problems discussed during the meeting were presented in details in "Przegląd Hodowlany" 70, 5, 2002.

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International Training Centre (PHLO)
Massey UniversityWageningen University and Research Centre

International Postgraduate Seminar
"New Developments in Feed Evaluation"
17-21 March 2003

Introduction

Our knowledge of the effects of specific nutrients and anti-nutrients on metabolism and ultimately animal performance has expanded rapidly over the last decade. This has increased the need to accurately define the available nutrient content of animal feeds. In addition some major advances have been made in chemical analyses and other laboratory assays that allow us to better characterize nutrient content and availability in feedstuffs.

Developments have also increased our knowledge of the potential nutritional value of feeds and feedstuffs with regard to components from feeds which are used for the synthesis of body components and for the support of metabolic processes in the body. Moreover, there have been several recent technical innovations. Included among them are novel advances such as the development of new in vitro digestibility assays, new bio-available lysine assays, new methods for determining endogenous ileal amino acid losses and thus true digestibility, near infra-red analysis (NIRA) and computerised growth models for determining dietary nutrient requirements. All of these can contribute considerably to the accurate formulation of mixed diets for simple-stomached animals. Effective feed formulators need to be up to date with these and other technologies, and a primary aim of this seminar is to provide an opportunity for such an update. During the first three days of the seminar an overview of the current concepts in feed evaluation science will be given. This will be across-species. On day four, relevant experts will draw material together for the respective key monogastric species.

Lecture material will be available in a textbook, "Feed evaluation - principles and practice".

Objective

The objective of the seminar is to provide a concise update on the principles of feed evaluation as applied to the monogastric livestock industries. The emphasis is on simple-stomached animals (pigs, poultry, companion animals and fish). Principles of ruminant nutrition are not covered.

Target group

The seminar is intended for nutritionists, feed formulators, advisors, managers, teachers, researchers and professionals involved in animal feed manufacture.

Seminar contents

I. Chemical composition

The principles inherent in the chemical analysis of feedstuffs are reviewed and modern methods of analysis are discussed. This section provides an update on state-of-the-art chemical descriptions of feeds.

- Overview of the determinants of nutritional value of feeds for different classes of animals
- Principles of chemical analysis
- New developments in the determination of protein/amino acids
- New developments in (rapid) measurement of non starch polysaccharides
- New developments in (rapid) measurement of fat/energy
- Applications of NIR (and related technologies)

II. Bio-availability

The absorption and subsequent metabolism of amino acids and other compounds are covered. Distinction is made between digestibility and availability. In vitro techniques are introduced.

- Amino acids (digesta collection, endogenous losses)
- Amino acids (digestibility determination, metabolism, digestibility vs. availability)
- The energy component (utilisation of absorbed nutrients)
- The energy component (DE/ME/NE and prediction of DE/ME/NE)
- In vitro digestibility methods (history and specific approaches)

III. Efficiencies of nutrient utilisation for various body functions

The role of antinutritional factors is discussed and means of reducing or eliminating their effects are considered. Traditional approaches to determining nutrient

requirements are contrasted with the dynamic approach afforded by computerised models simulating animal growth.

- Antinutritional factors (ANF); what are they?
- Effects of ANF on true nutrient digestibilities and effects on nutrient metabolism
- Amino acid/energy requirements (the place of growth simulation models)
- Demonstration of models

IV. Advances in feed evaluation

The general material covered in the first three parts of the seminar is placed into a species context.

- Principles behind diet formulation
- Advances in feed evaluation for pigs
- Advances in feed evaluation for poultry
- Advances in feed evaluation for companion animals
- Recent advances in feed evaluation for fish

Seminar requirements

Basic knowledge of feedstuffs and diet formulation and the principles of the chemical and biological evaluation of feedstuffs in an agricultural context. A background knowledge of the chemical analysis of feeds and nutrient utilisation is assumed.

Applicants must have an academic degree equivalent to MSc or BSc including specialism or experience in nutrition. A good command of the English language is required.

Applications

Those interested are requested to complete the form overleaf and return it before 17 February 2003 to the International Training Centre PHLO, De Leeuwenborch, P.O. Box 226, 6700 AE Wageningen, the Netherlands, tel. +31-317-484092/3, telefax +31-317-426547.

Seminar fee

The fee, including full board and lodging, tuition, and seminar material, but excluding travel to and from Wageningen and insurance is: € 2100.

The fee must be received three weeks before the seminar starts, that is before 24 January 2003

No full refund will be given for cancellations received after 3 March 2003

No financial assistance is available from the International Training Centre PHLO.

Participants

The maximum number of participants is 26. If the seminar is overbooked, the seminar organizers will select the participants.

Accomodation

All participants will be accommodated at the Wageningen International Conference Centre, Lawickse Allee 11, Wageningen, tel. +31-317-495495, fax +31-317-426243. Lectures will also be given at the Conference Centre.

Dates

The seminar will be held from 17-21 March 2003.

- 17 March: Arrival and registration; opening dinner.
- 18 March: Opening session.
- 21 March: Closing session; farewell dinner
- 21 March: Departure.

Language

Presentations and documentation will be given in English.

Liability

Participants must arrange proper insurance.

The organizers will not accept any liability for illness or loss of property during the seminar.

Seminar committee

Prof. J.L. Black (John L Black Consulting, Warri-moo/University of Sydney, Australia)

Prof. C.F.M. de Lange (University of Guelph, Department of Animal and Poultry Science, Guelph, Canada)

Prof. P.J. Moughan (Massey University, Institute of Food, Nutrition and Human Health, Palmerston North, New Zealand)

Prof. M.W.A. Verstegen (Wageningen University and Research Centre, Wageningen Institute of Animal Sciences (WIAS), Animal Nutrition Group)

Dr. R. van Haarlem (Wageningen University and Research Centre, International Training Centre PHLO, the Netherlands)

Lecturers

Prof. P.J. Moughan (Massey University, Institute of Food, Nutrition and Human Health, Palmerston North, New Zealand), Seminar Leader

Prof. M.W.A. Verstegen (Wageningen University and Research Centre, Wageningen Institute of Animal Sciences (WIAS), Animal Nutrition Group), Seminar Leader

Prof. J.L. Black (John L Black Consulting, Warrimoo/University of Sydney, Australia)

Dr S. Boisen (National Institute of Agricultural Sciences, Foulum Research Centre, Tjele, Denmark)

Dr C. Fisher (Nutrition Consultant, Kirknewton, Midlothian, Scotland)

Dr W. Koppe (Nutrition Department, Nutreco Aquaculture Research Centre, Stavanger, Norway)

Prof. C.F.M. de Lange (University of Guelph, Department of Animal and Poultry Science, Guelph, Canada)

General organization

The seminar is organized by the International Training Centre PHLO, Wageningen University and Research Centre in cooperation with the Institute of Food, Nutrition and Human Health of the Massey University and the Animal Nutrition Group, Wageningen Institute of Animal Sciences (WIAS).

INFORMATION

Information can be obtained from the International Training Centre PHLO, Wageningen University and Research Centre, P.O. Box 226, 6700 AE Wageningen, the Netherlands (tel. +31-317-484092/3, telefax +31-317-426547) or from the Animal Nutrition Group, Wageningen Institute of Animal Sciences (WIAS) (tel. +31-317-482982, telefax +31-317-484260).

http://www.wau.nl/phlo
E-mail: info@secr.phlo.wau.nl

International Training Centre PHLO, Wageningen University and Research Centre, The Netherlands

International Postgraduate Seminar "New Developments in Feed Evaluation" Wageningen, the Netherlands, 17-21 March 2003

PARTICIPANT REGISTRATION FORM

Please type or print (capital letters) clearly

1. Family name: .....

2. First name: .....

3. Organization/company: .....

4. Mailing address: .....

5. Tel: ..... Fax: .....
E-mail: .....

6. Qualifications (certificates, diplomas or degrees): .....

.....

7. Present position (job title)/responsibility: .....

.....

....
Date Signature of applicant

To be completed and returned as soon as possible but before 17 February 2003 to the following address:

Dr. Robert van Haarlem
International Training Centre PHLO, Wageningen University and Research Centre, P.O. Box 226, 6700 AE Wageningen, the Netherlands, telefax +31-317-426547