



**THE FUTURE  
OF FEED**

**28TH APRIL 2015**



## **NEW ADVANCES IN CO-PRODUCTS FOR PIGS**

**DATE: TUESDAY 28TH APRIL    VENUE: RASE BUILDING, NAEC**

Stoneleigh, Warks, CV8 2TL

### **CONFERENCE AGENDA**

10.30 – 11.00

**Registration and refreshments**

11.00 – 11.10

**Welcome and overview of the day – Nigel Penlington, BPEX**

11.15 – 11.35

**LINK ENBBIO Project Findings – Professor Julian Wiseman, University of Nottingham**

The most comprehensive and thorough study of the impact of feeding wheat derived Distillers Dried Grains with Solubles (DDGS) is complete and provides an exciting new source of information for producers and nutritionists looking for UK-derived, sustainable and cost-effective alternatives to feeding imported proteins such as soya.

For the past four years, a consortium of leading UK pig processors, DDGS manufacturers, feed and nutrition companies and researchers, funded by Defra's LINK Programme, has been working on an in-depth study of the Environmental and Nutritional Benefits of Bioethanol co-products (ENBBIO) and the viability of feeding bioethanol DDGS to pigs. Professor Wiseman's presentation is a technical summary of the trial work.

11.35 – 12.05

**Feeding Bioethanol DDGS to pigs – Dr Steve Jagger, AB Agri**

A new protein source for livestock has emerged from the developing bio-fuels industry. The highly controlled process of producing bio ethanol from cereals results in the production of Distillers Dried Grains plus Solubles (DDGS). This material has the potential to provide a significant proportion of the protein required by growing and finishing pigs, particularly in the later stages of growth.

A key aspect in the incorporation of any raw material into a diet is to fully understand the nutrient value it provides. Accurate values for nutrient digestibility allow the successful use of wheat DDGS in pig diets without any detrimental effect on either feed conversion ratio or growth rate. These points, together with the effect of wheat DDGS on the diet composition, will be examined in the presentation.

12.05 – 12.15

**Results from the Commercial Pig Trial – Jen Waters, Tulip Ltd**

Jen will discuss the commercial trial completed at Harper Adams University. This focused on feeding increasing levels of DDGS to finisher pigs and the subsequent effect of finisher pig performance on farm, slaughter characteristics and meat quality.

12.15 – 12.30

**Q and A**

12.30 – 13.00

**The Future of the Bioethanol Industry – Mark Chesworth, Vivergo Fuels**

Mark is managing director of Vivergo Fuels and will present a commercial view of the future of the UK Bioethanol industry and how this will evolve over the next three to five years.

13.00 – 13.10

**Scientific reasons why this is of value to the industry, further research – Professor Wiseman**

13.10 – 13.25

**Q and A**

13.25 – 13.30

**Summing up and close – LUNCH**



## THE SPEAKERS

### NIGEL PENLINGTON – CHAIR

On graduating from Harper Adams in Agricultural Engineering, Nigel worked on several farms including three years in Saudi Arabia where he progressed to farm manager, being responsible for all aspects of the operation including contracting and produce sales.

On his return to the UK, Nigel completed an MSc in Soil and Water Engineering from Cranfield University. After a spell with a drainage and utility contracting company, he joined ADAS as a Mechanisation Consultant. Primary areas of work included farm waste management systems, environmental protection, odours and land restoration. Nigel joined MLC in 2004 specialising in environmental issues affecting the UK pig industry and production technology.

Today Nigel manages the Environment and Building team and represents BPEX as a stakeholder in a number of areas including nitrates and diffuse water pollution, IPPC, farm waste and water resources.

### PROFESSOR JULIAN WISEMAN

Julian Wiseman is Chair of the non-ruminant sub-group of the ENBBIO Defra-LINK project. He is Professor of Animal Production at the School of Biosciences, University of Nottingham and formerly Head of the Division of Animal Sciences. He has extensive research experience with pigs and poultry, predominantly in nutrition and product quality. He has 85 publications in international peer-reviewed journals, 2 books written, 38 books edited, 38 review articles / chapters in books and a number of conference invitations both nationally (47) and internationally (122). He is Chair of the annual Nottingham Feed Conference.

### DR STEVE JAGGER

Steve Jagger gained his PhD from Nottingham University under the guidance of Julian Wiseman and the late Des Cole. He then began his commercial life in 1986 and joined SCA specialising in the development of piglet diets before moving to Dalgety Agriculture Ltd five years later as Technical Manager for pigs. He is currently employed by AB Agri and is involved in the provision of technical support and the development of pig products primarily for the UK.

### JEN WATERS

After completing a degree in Biology at the University of Leeds Jen went onto a BPEX funded Research Masters focusing on disease eradication initiatives in pigs in Yorkshire and Humberside at the University of Leeds. This then led to working on the BPEX KT team covering the North of England, working for a piglet creep company based in Yorkshire before making the move to East Anglia to join the Tulip Supply Chain Team. Here, Jen is involved in various retailer projects, bridging the gap between retailer and producer – one such project is this ENBBIO project. She is also Chairperson of the Eastern Young National Pig Association (YNPA) and secretary of Otley Pig Discussion Group.

## MARK CHESWORTH - VIVERGO FUELS LTD

Mark grew up with his family in Derbyshire and graduated from the University of Staffordshire with a BA Business Studies degree. After the completion of his degree, he began his career in Planning and Procurement for a clothing manufacturer and soon moved on to Factory Management roles for M&S clothing suppliers - rotating around various southern and midland locations including Portsmouth, Rotherham and Nottingham, solidifying his career in the UK.

In the late nineties Mark moved abroad to continue his factory management career in both Dubai and Indonesia. On returning to the UK in 2002, Mark became the Northern Foods Supply Chain Manager and went on to become Factory Manager for Hall & Woodhouse in 2003.

In 2004 Mark joined Associated British Foods (ABF) as Supply Chain Director for Ryvita spending four years in the role with responsibility for Manufacturing, Logistics, Planning & Procurement, Technical and Safety performance before becoming the Operations Director of the UK Grocery Group in 2008. In late 2008 Mark moved to Westmill Foods as Commodity Director with immediate responsibility for Rice Edible oils & Wheat before taking responsibility for the broader procurement function.

December 2013 saw Mark join Vivergo Fuels in his current position as Managing Director, where Mark manages the overall team and operations of one of the UK and Europe's largest producers of protein rich animal feed and bioethanol, a renewable transport fuel blended with petrol. Vivergo is one of the key businesses within Hull's burgeoning alternative energy economy and champions the regions aspirations to be the UK's Energy Estuary.

Mark currently sits alongside other Bioethanol representatives on the Board at e-PURE – The European Renewable Ethanol Association to ensure long-term support for the Bioethanol Industry and energy security. Mark also continues to ensure the company plays an active role in the local community with memberships to a variety of local and regional membership organisations.

Outside of work, Mark is a keen sports person, coaching junior rugby teams and regularly watching both the Northampton Saints and Derby County at their matches. retain body condition and therefore maximize the chances of successful insemination.

