

### Keynote speakers include

Mr Matt Dempsey	Irish Farmers' Journal
Prof Les Firbank	North Wyke Research (BBSRC)
Dr Alistair Carson	Agri-Food and Biosciences Institute (AFBI)
Dr Harry Clark	Agresearch NZ
Prof John Oldham	Scottish Agricultural College (SAC)
Prof Ian Crute	Agricultural and Horticultural Development Board (AHDB)
Mr Matt Dobbs	Westpoint Veterinary Group, consultant veterinary surgeon to Tesco
Dr Jonathan Birnie	Dunbia (Feed Industry)
Prof Peter Gregory	Scottish Crop Research Institute (SCRI)
Dr Mike Wilkinson	University of Nottingham

### Captive Animals

Dr Kat Bell WALTHAM Centre for Pet Nutrition

### Animal Breeding and Fertility

Dr Donagh Berry	Agricultural and Food Development Authority (Teagasc)
Dr Gerard Albers	Hendrix Genetics, The Netherlands
Dr Bruce Moss	Agri-Food and Biosciences Institute (AFBI)
Dr Ian Richardson	University of Bristol
Dr Matt Lucy	University of Missouri, USA

### Grassland

Dr Jean-Louis Peyraud	National Institute for Agricultural Research (INRA), France
Dr Pat Dillon	Agricultural and Food Development Authority (Teagasc)
Dr Lynne Dawson	Agri-Food and Biosciences Institute (AFBI)

### Crops and Soils

Dr Lyndsay Easson	Agri-Food and Biosciences Institute (AFBI)
Prof Tammo Steenhuis	Cornell University, USA
Prof Keith Smith	University of Edinburgh

### Agricultural Economics

Dr Trevor Donnellan Teagasc

### Equine Specialists

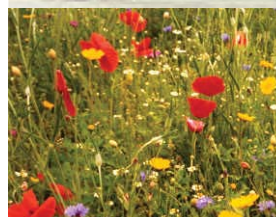
Dr Colin Roberts	Cambridge University
Dr Jack Murphy	University College Dublin
Dr Jo-Anne Murray	University of Edinburgh
Dr David Marlin	Equine Consultant
Dr Pat Harris	WALTHAM Centre for Pet Nutrition

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Agricultural Research Forum 

**bsas**  
british society of animal science

## FOOD, FEED, ENERGY AND FIBRE FROM LAND A VISION FOR 2020



An International Conference  
to address  
future challenges for land use

Organised by the  
British Society of Animal Science,  
Agricultural Research Forum of Ireland  
and the  
World Poultry Science Assoc (UK Branch),  
in collaboration with the  
Association of Applied Biologists

In association with the  
Institute of Agri-Food and Rural Land Use  
and Queen's University

Queen's University, Belfast  
Northern Ireland  
12-14 April 2010

# FOOD, FEED, ENERGY AND FIBRE FROM LAND

## A VISION FOR 2020

World food demand is predicted to double from present levels by 2050, driven by a projected 40% increase in population growth and changes in eating patterns. This will undoubtedly lead to greater demand for livestock products. However, our ability to increase food production is constrained by a number of factors, including competing demands for land use for energy production and recreational use, together with the impact of climate change on land availability and productivity. This conference will bring together a range of international research scientists to discuss future priorities for agricultural research and development and, in particular, to examine factors influencing the efficiency of food and energy production.

Delegates will include scientists, economists, livestock industry representatives, opinion formers, government policy advisors and those involved in influencing future agricultural research and development or in translating research into practice. Details on registration can be found at [http://www.bsas.org.uk/Meetings\\_&\\_Workshops/](http://www.bsas.org.uk/Meetings_&_Workshops/)

There will be over 450 presentations covering a wide range of scientific disciplines, including a wide range of animal science studies, together with economics and crop and soil studies.

This year's programme contains a number of papers related to Animal Health, Behaviour and Welfare, including the following sessions:

- **Genetics and Health:** Presentations will cover genetics related to livestock health such as tuberculosis and digital dermatitis in dairy cows, energy utilisation in dairy cows, genetics related to nematode resistance and interaction with nutrition.
- **Cattle Behaviour:** This session is focusing on dairy and beef cattle behaviour, and more specifically social interactions, eating and lying behaviour.

- **Advances in Equine Behaviour and Welfare:** This session features an invited lecture by Dr Jack Murphy (University College Dublin). It also contains offered presentations on consequences of saddle pressure on health and information communication on welfare of horses
- **Companion and Captive Animals:** This session features an invited lecture by Dr Katherine Bell (Whitehouse-Tedd), WATHAM Centre for Pet Nutrition, on the nutritional management of captive cheetahs and similarities with the domestic cat. Other papers include development on feeding practices and obesity in cats, novel canine feedstuff, and behaviour of captive wolves and lemurs.
- **Animal Health:** A widely diverse session with presentations covering a range of diseases in various hosts. Offered papers include surveillance of bovine tuberculosis, antiparasitic plants and immune responses to nematodes, disease resistance, and subclinical disease in pigs
- **Health, Welfare and Behaviour:** This session comprises of papers on a variety of health and behaviour issues and their implications on host welfare. Offered papers report outcomes of farm management and diseases, such as lameness and parasitism on welfare, on desired welfare traits such as lamb vigour, on grazing patterns of hill sheep and transport welfare.
- **Posters and Highlight Sessions:** There are poster sessions dedicated to health and welfare issues and the highlights from selected posters will be briefly presented in specially formed sessions.

In addition to the Animal Health, Behaviour and Welfare sessions, a wide range of Animal Science disciplines (e.g., nutrition, genetics, product quality, equine science, reproduction) will also be covered in the meeting. Topics of current policy and industrial relevance will include:

- **Livestock and Environment:** 'Ruminants and Environment'; 'Priorities for Land Use'; and 'Livestock and Climate Change: Impacts and Mitigation'.
- **Role of Animal Science:** Some of the highlights will include the Presidents session with an invited paper on "Harnessing scientific developments in practice", the Hammond Lecture to be given by Prof John Oldham entitled "Animal Science - Recent Progress and Future Challenges", and a session on "What Industry wants from Animal Science"

If you wish to receive more information or to register for the conference, please contact the BSAS office – [bsas@sac.ac.uk](mailto:bsas@sac.ac.uk) or visit the BSAS website where you can register online [www.bsas.org.uk](http://www.bsas.org.uk)