

THE SFT VIRTUAL PIG CONFERENCE AND LIVE Q&A



SOCIETY OF FEED
TECHNOLOGISTS

3.30pm - 5.00pm
Thursday 4th November 2021



SHARING ADVANCES IN THE ANIMAL FEED INDUSTRY
FOR MORE THAN 50 YEARS

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Welcome to a programme of topical issues on pig nutrition with world class speakers.

Iron supplementation of piglet feeds:

Dr. Cormac O'Shea, Head of Bioveterinary and Microbial Sciences Department, Technological University of the Shannon, Ireland.

Cormac O'Shea, formerly Associate Professor of Non-ruminant Science at the University of Nottingham and prior to that Lecturer in Poultry Science at the Faculty of Veterinary Science, University of Sydney, has research interests in pig and poultry physiology and nutrition. Cormac completed a B.Agr.Sc. degree in Animal Science at University College Dublin in 2006 followed by a PhD in pig nutrition and manure management with Prof. John O'Doherty in 2010. This was followed by a series of postdoctoral fellowships including time in Prof. Torres Sweeney's lab at the School of Veterinary Medicine, UCD. Research contributions to date include reviews and experimental reports on the role of nutrition in modifying manure composition, seaweed-derived polysaccharides for piglet health, poultry mineral nutrition and physiology. Along with former colleagues at the University of Sydney, Cormac is currently evaluating oral delivery of iron in neonatal piglets reared under indoor production systems.

Effects of birth and weaning weight on lifetime performance:

Dr. Ramon Muns, Principal Scientific Officer, Agri-Food and Biosciences Institute, Hillsborough.

Ramon Muns has a degree in Veterinary Medicine and a PhD in Animal Production both by the University Autonomus of Barcelona. Dr. Muns has worked and collaborated with several international research groups at different Universities, including Melbourne University in Australia, Aarhus University in Denmark, and Chulalongkorn University in Thailand. He has been working at the Agri-Food and Biosciences Institute (AFBI, Northern Ireland) since 2016 and is the Head of the Monogastric Research Group since February 2020. He leads a team of 3 researchers and 9 farm and research technicians. The main areas of research within his group involve nutrition and feed management to reduce environmental impact of pig and poultry production, support animal health and increase farm efficiency. Dr. Muns and his team work closely in several projects with colleagues from the University Autonomus of Barcelona, Queen's University in Belfast and Teagasc at the Republic of Ireland, and with different industry partners within Northern Ireland. A current area of interest is the use of former foods and the role of pig production in circular economy. Dr. Muns and his team are currently working on 3 projects with both public funding and industry involvement. A project on nutritional alternatives to overcome the removal of zinc oxide from pig diets, a project on sow productivity and longevity, and a project on tailored feeding strategies to reduce weight variability and increase herd efficiency.

Low crude protein diets and amino acid nutrition:

William Lambert, Scientific and Technical Manager Metex Noovistago.

William Lambert studied Animal Science in Wageningen University, the Netherlands and Ecole Supérieure d'Agriculture in Angers, France. After a traineeship at Schothorst Feed Research, he joined Ajinomoto Animal Nutrition Europe in 2015 as Area development manager for new amino acids in pigs and poultry, based in Paris. In 2020, he became Scientific and Technical Manager for monogastric, in charge of the R&D program for the application of new amino acid solutions. Since April 2021, Ajinomoto Animal Nutrition Europe is now Metex Noovistago.

Pig Diets in a Post Soya Era

- “Nutritional, Economic and Environmental”:

Dr Michael Marsden, Product Development Director, AB Connect (AB Agri Ltd)

Michael Marsden has a farming background. He studied at Nottingham University, where he gained a BSc with Honours in 1980 and remained to do a PhD in Amino Acid Metabolism in the Rumen, in the Department of Applied Biochemistry and Nutrition, which was granted in 1984.

He has 37 years of experience in the nutrition and health industries, working initially for Peter Hand Animal Health before joining the feed compounder Bibby in 1989 which was absorbed into AB Agri in 1994. Over his career he has provided commercial, technical, product and system development and support, within the UK, Australia, Europe, Middle East and China across all species. For many years, he managed a large team of nutritionist and technical colleagues, while being recognised as the Senior Ruminant Nutritionist in AB Connect.

He has previously managed in-house research facilities for pigs and poultry trials, plus a contracted dairy research unit at a UK Veterinary University.

He has driven extensive value-added product development external research within UK, European, USA, and Chinese Research Institutes and continues to publish much of this research jointly with the lead academics.

He is now the Product Development Director operating across all species with particular focus on feed materials, including co-products, in developing environmentally sustainable, responsible and economically viable feed solutions and tools.

He has commercial relationships down and upstream from the feed sector that recognise the pivotal role feed supply has.

He chairs the AIC Legal & Scientific Committee, was a founder member of the AIC Feed Advisory Committee where he contributed the syllabuses and the AIC on-line training videos, and the original UFAS committee.

His is an active member of, FEFAC (European Feed Association) Nutrition Committee, previously a steering group member of the FEFAC Private Sector Partnership on GHG LCA with the FAO, and subsequently an active member of the European Product Environmental Footprint Feed Committee Technical Secretariat and GFLI working group and EC Technical Advisory Board - Agricultural Working Group.

Update on liquid Feeding; recent research findings:

**Dr. Peadar Lawlor, Principal Research Officer,
Teagasc Pig Development Department, Co. Cork.**

Peadar Lawlor has 27 years of research and advisory experience in pig management and nutrition. His current research projects include:

1. Optimising nutrition and management of suckling and newly weaned pigs to stimulate earlier digestive enzyme production and increase early post-weaning feed intake and growth. This aims to reduce reliance on antibiotics and ZnO and to increase lifetime growth and feed efficiency. He has two projects in this area: PigNutriStrat (DAFM Ireland) and MonoGutHealth (EU Horizon 2020).
2. Optimising liquid feeding for grow-finisher pigs. As ~70% of Irish pigs are liquid-fed, it is imperative that feeding systems are managed correctly to optimise growth and feed efficiency. A recent project compared an optimised liquid feeding operation with meal and dry pellets in feed hoppers and single space wet/dry feeders, optimised water: meal ratios and examined diet acidification and fermentation. A follow-on project aims to improve feed efficiency of liquid-fed pigs by minimising feed wastage and preventing spoilage of liquid feed via optimisation of feeding management and system infrastructure and hygiene.
3. Probiotics to substitute for in-feed medication and for competitive exclusion of MRSA. Work in this area encompasses: 1. Developing a seaweed-derived Bacillus to improve gut health in pigs in the absence of in-feed antibiotics and ZnO and 2. Development of a bacterial cocktail for nasal application in pigs to reduce MRSA carriage, thereby reducing the risk of human infection.

Dr. Lawlor's other research interests include alternative feed ingredients, sow nutrition, pre-weaning mortality, improving feed efficiency, Salmonella control, safety of GM feed. He is author of 120+ peer-reviewed publications and Adjunct Lecturer at NUI Galway. He has been a member of the: EFSA FEEDAP panel; Chemical Safety Sub-Committee of the Food Safety Authority of Ireland; Editorial Board of the Journal of Animal Science.



Considerations of water quality:

Joost Straathof, Owner and Managing Director of JSWater, The Netherlands.

Joost Straathof was raised on a dairy farm in the western part of The Netherlands. After he finished his bachelor degree Agricultural Business in the city of 's-Hertogenbosch in 1998 Joost started his career as international sales manager for drinking water equipment. This involved technical and sales support for products groups like well water treatment, dosing applications and drinking water systems.

In 2007 Joost Straathof started his own independent water consultancy company JSWater because he noticed there was a large demand for water management support in the farming industry.

JSWater aims to improve drinking water quality at a variety of farms, mainly pigs, poultry and dairy. In many occasions he cooperates with partners like veterinarians, feed industry and educational institutes.

One of the main activities is to carry out practical “on-farm”- water scans. These water scans can be seen as a bottleneck analysis of the water distribution system among the farm. The water scans are a valuable tool for those farmers who want to improve the quality of their drinking water systems.

Another important activity of the company is to take care of customized and extensive water analysis, and even more important, interpretation of the laboratory results.

The importance of water is often overlooked and therefore Joost also provides training and education to all sorts of interested parties. JSWater encourages farmers to pay more attention to their water management because there is no doubt that improved water management will contribute to optimal production results.



Chair of the Live Q&A

Professor Ilias Kyriazakis FRCVS, FGAgA, Institute for Global Food Security, Queen's University, Belfast.

Ilias Kyriazakis is Professor of Animal Science at the Institute for Global Food Security of Queen's University Belfast. Prior to this he has held Chairs at Edinburgh and Newcastle. He is a veterinarian by training who specialises in the effects of animal management on their performance, ability to cope with challenges, such as pathogens, and environmental impact. He has worked with a variety of animal species ranging from mice to cows, but during the last 15 years his research has focused mainly on pigs and poultry. His recent work in these two species addresses:

- 1) the effect on nutrition on the ability of animals to cope with pathogens, such as coccidia;
- 2) the use of alternative and home-grown feeds in pig and poultry systems and
- 3) the development of methods to assess the environmental impact of local and global pig and poultry systems, including the assessment of system changes on their environmental impact.

His team was responsible for the assessment of the environmental impacts of the UK pig, broiler, layer and turkey systems, and the identification of hotspots responsible for such impacts. They are currently assessing the contribution of livestock health to the environmental impact of their production systems. He is a co-author of the CIEL report 'Net Zero Carbon and UK Livestock'. Professor Kyriazakis is the recipient of several awards, including the Leroy Award by the European Federation of Animal Sciences for International Excellence in Animal Science, the Royal Agricultural Society Medal for Research of Outstanding merit, which is of proven benefit to Agriculture, and Fellow of national and international bodies.

2022 DATES FOR YOUR DIARY

The SFT Annual Poultry Conference, Thursday 20th January 2022

10am - live at the Windmill Hotel, Coventry

The SFT Annual Ruminant Conference, Thursday April 7th 2022

10am - live at the Windmill Hotel, Coventry

The SFT Annual General Meeting, Thursday April 7th 2022

12 noon - live at the Windmill Hotel, Coventry

Mark your diary now!

