

Insects as Food and Feed: Delivering Insect Proteins in the UK

Thursday 31 October, 09:15 – 16:30

Event Suite, Thinktank Museum, Birmingham

09:15 – 09:45 Registration with tea and coffee

09:45 – 10:00 Welcome and introductions

Session 1: Integrating insect protein as part of our food and feed systems

Chair: Rachel O'Connor, Michelmores

- 10:00 – 10:25 **David Tavernor, Fly2Feed**
Black soldier fly farming around the world - insights from a Nuffield Farming Scholar
- 10:25 – 10:40 **Arthy Surendran, SRUC (Scotland's Rural College)**
Feeding the future: The role of black soldier fly frass in sustainable agriculture
- 10:40 – 10:55 **Thomas Farrugia, Beta Bugs Limited**
Insect farming's next frontier: Harnessing genetics for sustainable success
- 10:55 – 11:20 **Maureen Wakefield, Fera Science Ltd**
Rearing substrate and safety of insect derived products
- 11:20 – 11:35 Discussion
- 11:35 – 12:05 *Refreshment break*

Session 2: Where are we now? Insect production and supply chains across Europe

Chair: Mark Ramsden, ADAS & RES Food & Feed SIG convenor

- 12:05 – 12:30 **Teun Veldkamp, Wageningen University & Research**
Application of insects in poultry diets
- 12:30 – 12:45 **Nick Rousseau, UK Edible Insect Association**
Research collaborations delivering solutions to farmed insect protein sector challenges
- 12:45 – 13:00 **Chris Jiggins, University of Cambridge**
Genetic diversity of the black soldier fly
- 13:00 – 13:10 **Bolajoko Adewoye, Yaba College of Technology***
Evaluation of feeding parameters, nutrient and mineral compositions of Black Soldier fly (*Hermetia illucens*) larvae reared on four organic substrates
- 13:10 – 13:20 **Bernardo Antunes, Freie Universität Berlin***
Fermentation of agricultural side-streams to produce diets fortified with complex probiotic populations to strengthen the nutritional and safety profile of insects
- 13:20 – 13:35 Discussion
- 13:35 – 13:40 Thomas Farrugia, INBIA update
- 13:40 – 13:50 Rolling mic introductions
- 13:50 – 14:40 *Lunch*

Session 3: Looking Forward: How can understanding developments in invertebrate welfare help insect farmers in the UK?

Chair: Gary Needham, RES Rearing SIG convenor

- 14:40 – 15:05 **Andrew Crump, Royal Veterinary College, University of London**
Insect sentience: Evidence & ethics?
- 15:05 – 15:20 **Craig Perl, Insect Welfare Research Society**
Standard operating procedures: Grinding as a humane slaughter method for farmed black soldier fly
- 15:20 – 15:35 **Femi E Benny, University College London**
Establishing foundations: Diversity, rearing practices and market value of edible insects in india
- 15:35 – 15:50 **Benjamin Kennedy, Invertivet Bearded Vets Ltd**
Report of detection and treatment of intestinal parasite gregarine in *Schistocerca gregaria* within an insect farming system
- 15:50 – 16:00 **Emily Witter, Anglia Ruskin University (Writtle)**
From the perspective of dog owners... should welfare regulations be introduced in the production of insect protein as an ingredient in dog food?
- 16:00 – 16:15 Discussion
- 16:15 – 16:30 Next steps and meeting close

Convenors

Peter Smithers (Food & Feed SIG)

Mark Ramsden, ADAS (Food & Feed SIG)

Eleanor Drinkwater, Writtle University College (Welfare & Ethics SIG)

Gary Needham (Rearing SIG)

Rachel O'Connor (Michelmores)

Ionie-Lee Smallwood (ADAS)

In Partnership with Michelmores: The Michelmores Sustainable Agriculture practice is dedicated to working with businesses whose technologies and practices are tackling the most pressing issues facing the agriculture sector: climate change and biodiversity loss.

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