Monday 19th June 2017

ISPAIA ZOOPOLE Développement – ZOOPOLE Les Croix – 22440 PLOUFRAGAN

18.15 Registration

Welcome cocktail

18.30 – 20.00
The Welcome Cocktail is sponsored by Boehringer Ingelheim and Aviagen.

>> A shuttle is planned to go to the hotels.

Tuesday 20th June 2017

ISPAIA ZOOPOLE Développement – ZOOPOLE Les Croix – 22440 PLOUFRAGAN

8.15 - 9.00 Registration

Opening ceremony

Main lecture
Learning from the experts: innovation within practice-led collaborative networks in the laying hen sector
David Main (University of Bristol Veterinary School)

9.00 - 9.30 Session 1 - Broiler breeders welfare and effect of early age experience on welfare
Chair person: Daniel Guéméné (SYSAAF), Randi Moe (NMBU)
Stereotypic behaviour in broiler breeders affected by alternative feeding strategies
Aitor Arrazola (University of Guelph)

The effect of perch length on perching, fertility, and health in broiler breeders
Sabine G. Gebhardt-Henrich (University of Bern)

The transgenerational effects of reduced balanced protein diet on the stress susceptibility of broiler breeders
Congcong Li (KU Leuven)

Maternal behaviour and changes in levels of neuropeptides in the brain of the broody domestic hen
Yana Aleksandrova (The Roslin Institute, The University of Edinburgh)
Effect of aviary rearing on welfare of hens in large furnished cages
*Tina Widowski (University of Guelph)*

Access to litter during rearing and environmental enrichment during production reduce fearfulness in adult laying hens
*Margrethe Brantsaeter (Animal Welfare Research Group, NMBU)*

**11.00 - 11.30**

Coffee break
The coffee break is sponsored by **Hendrix Genetics**.

**11.30 - 12.00**

**Main lecture**
Harnessing the best of Europe to understand and solve Keel Bone Damage: An ongoing EU-COST Action
*Micahel Toscano (University of Bern)*

**12.00 - 12.45**

**Session 2 - Cognition: another way to investigate welfare?**
*Chair person: Christine Leterrier (INRA), Lubor Kostal (Slovak Academy of Sciences)*
Cognitive abilities and adaptation to changes: another way to investigate welfare
*Vanessa Guesdon (ISA Lille)*

The speed and success of associative learning in hens depend on genotype and housing system
*Manja Zupan (University of Ljubljana)*

Five shades of grey: cognitive bias in poultry
*Lubor Kostal (Slovak Academy of Sciences)*

**12.45 - 14.00**

Lunch (buffet)
The lunch is sponsored by **Aviagen**.

**14.00 - 14.30**

**Main lecture**
The GroupHouseNet COST Action: exploiting European synergy to reduce feather pecking in laying hens
*Bas Rodenburg (Wageningen University)*

**14.30 - 16.00**

**Session 3 (1st part) - Feather pecking origins and prevention**
*Chair person: Werner Bessei (University of Hohenheim), Charlotte Berg (Swedish University of Agricultural Sciences)*
Genetic and phenotypic correlations of explorative behaviour and open-field activity in layer chicks with severe feather pecking as adults
*Werner Bessei (University of Hohenheim)*

Effects of omitting beak-trimming on plumage, skin and keel bone conditions in barn
Selection of beak shape to reduce the damage of feather pecking in layers
David Cavero (H&N International)

Effects of litter provision during early rearing and environmental enrichment during the production phase on feather pecking and feather damage in laying hens
Fernanda Tahamtani (Aarhus University)

The effect of lighted incubation on fear responses in layer chicks at early ages and feather pecking in pullets
Sezen Özkan (Ege University)

Relationship between light quality, environmental enrichment and injurious pecking in turkeys
Jutta Berk (Institute of Animal Welfare and Animal Husbandry)

Coffee break
The coffee break is sponsored by MixScience.

Session 3 (2nd part) - Feather pecking origins and prevention
Effects of divergent selection for natural antibodies on fearfulness and feather damage of laying hens
Hieu Nguyen Ba (Wageningen University and Research)

Measuring ground and whole feather appetite and digestibility and the effects on artificial feather presentation in ISA Brown hens
Kevin Prescilla (University of Sydney)

Skin microbiota and its relationship to the feather-pecking status of laying hens: A pilot study
Alannah Mackay (University of Sydney)

Session 4 (1st part) - Free papers
Chair person: Ingrid de Jong (Wageningen Livestock Research), Arnold Elson (RSK ADAS)

Broiler health, welfare, antimicrobial consumption and gut microbiota diversity in sheds authorized for an increased stocking density
Guido Di Martino (Istituto Zooprofilattico Sperimentale delle Venezie)

The effect of an integrated approach of predatory mites, local acaricides and plant based supplements on poultry red mites
Nathalie Sleecnx (Experimental Poultry Centre)
**Wednesday 21th June 2017**

ISPAIA ZOOPOLE Développement – ZOOPOLE Les Croix – 22440 PLOUFRAGAN

**8.30 - 10.15**  
**Session 5 - New methods of on farm killing and of slaughter**

**Main lecture**

**8.30 - 9.00**  
On farm killing for disease control  
*Michael Mararhens (Institute for Animal Welfare and Animal Husbandry)*

Anatomical pathology and behavioural reflex responses induced by nonpenetrating captive bolt devices for on farm euthanasia of layer chickens  
*Rathnayaka Bandara (University of Guelph)*

Under pressure: determining optimum air pressure for humane euthanasia of mature broiler breeders with an air-powered non-penetrating captive bolt device  
*Lilia Serpa (University of Guelph)*

**9.00 - 10.00**

Assessing Physical Methods for On-Farm Euthanasia of Compromised Turkeys  
*Caitlin Woolcott (University of Guelph)*

**10.00 - 10.30**  
**Coffee break**

The coffee break is sponsored by *Grimaud*.

**10.30 - 12.00**  
**Session 6 - Welfare at depopulation and during transport**

*Chair person: Thea van Niekerk (Wageningen Livestock Research), Boris Bilcik (Slovakia)*
Main lecture

10.30 - 11.00  From farm to slaughter; a challenge for animal welfare
Marien Gerritzen (Wageningen University and Research)

Implementing a solution for watering and feeding poultry during long-lasting transports
Jocelyn Marguerie (Réseau Cristal)

A new methods of stunning poultry: evaluation of physiological and behavioural responses to Low Atmospheric Pressure Stunning (LAPS) in broilers
Jessica Martin (University of Edinburgh)

11.00 - 12.00

An improved method of depopulating end-of-lay hens from furnished cages
Arnold Elson (RSK ADAS)

Relationship between a fitness-for-transport assessment of broilers before transportation and stress physiology
Leonie Jacobs (ILVO)

12.00 - 12.45  Session 4 (2nd part) - Free papers

Evaluation of custom LED lighting system on performance, health and welfare parameters in commercial broiler flocks
Jessica Martin (University of Edinburgh)

Broiler chicken stocking density affects use of environmental enrichment objects
Ingrid de Jong (Wageningen Livestock Research)

The effect of perches and elevated platforms on broiler leg health in commercial broiler farms
Eija Kaukonen (University of Helsinki)

12.45 - 14.00  Lunch (table-served)

14.00 - 15.45  Session 7 - New contributions of PLF for behavioural assessment
Chair person: Valentina Ferrante (Italy), Johan Zoons (Experimental Poultry Centre)

Using tri-axial accelerometers to determine hazardous pathways for laying hens in aviaries
Nikki Mackie (University of Bristol)
Activity and occupation patterns analysis as broilers' welfare indicator
*Tomas Norton (KULeuven research & development)*

Longitudinal observations of individual hens access to an outside area indicates highly consistent patterns of use
*Michael Toscano (University of Bern)*

Monitoring laying hens' range use with hen-mounted light sensors
*Stephanie Buijs (University of Bristol)*

Automatic ultra-wideband sensor detection shows selection on feather pecking increases activity in laying hens
*Elske de Haas (Wageningen University & Research)*

Monitoring individual chickens' positions in a free-range area using Ultra-Wideband technology
*Lisanne Stadig (Flanders research institute for Agriculture, Fisheries and Food)*

The fractal organization of ultradian rhythms in poultry behavior
*Diego Alberto Guzman (Instituto de Investigaciones Biológicas y Tecnológicas (IIByT-CONICET), and Instituto de Ciencia y Tecnología de los Alimentos)*

**15.45 - 16.15** Coffee break
The coffee break is sponsored by APPI.

**16.15 - 17.30** Session 8 - On field Welfare Monitoring
*Chair person: Inma Estevez (Spain), Harry Blockhuis (Sweden)*
An app assessing broiler welfare through animal-based measures
*Léa Michel (Terrena Innovation)*

Epidemiological study about feather pecking in laying hens housed in free range and furnished caged farms in France
*Jenna Coton (ANSES)*

A comparison of on-farm duck welfare assessment methods
*Maja Makagon (University of California, Davis)*
On-farm health and welfare risk factors for pre-slaughter mortality and condemnations in commercial male turkey (Melagris gallopavo) flocks  
Joanna Marchewka (Institute of Genetics and Animal Breeding of the Polish Academy of Sciences)

Surveillance of laying hen welfare in multi-tier loose-housing systems with non-debeaked birds  
Alexandra Jeremiasson (Swedish Egg Association)

17.30 - 18.45  
Poster reviewing or Free time (you can enjoy a walk along the port or the music festival in the city)

16.15 - 18.45  
Workshop: Welfare implications arising from the broiler breeder paradox  
On registration only

19.45  
Gala dinner  
The Gala dinner is sponsored by CEVA.

>> Several shuttles are planned to go back to the hotels.

Thursday 22nd June 2017

ISPAIA ZOOPOLE Développement – ZOOPOLE Les Croix – 22440 PLOUFRAGAN

Main lecture  
9.15 - 9.45  
Animal welfare and antibiotic use in poultry - The public perception and how to respond  
Thomas Blaha (German Veterinary Association for Animal Welfare)

Main lecture  
9.45 -10.15  
Animal health and welfare in organic egg production  
Monique Bestman (Louis Bolk Institute)

10.15 -11.30  
Session 9 - Poultry production sustainability and consumer perception  
Chair person: Ragnar Tauson (Swedish University of Agricultural Sciences)  
Is the dual-purpose chicken an alternative? Consumers’ perception in Germany  
Nanke Brümmer (Thuenen Institute of Market Analysis)

Improve ‘feedback to the farmer’ for animal welfare reasons in poultry slaughterhouses  
Charles Facon (RESAGRO)
Developing higher welfare chicken production
Amélie Legrand (CIWF France)

Network approach to stimulate and support practice-led on-farm innovations in the laying hen sector
Thea van Niekerk (Wageningen Livestock Research)

11.30 - 12.00  Closing ceremony

12.00 - 13.30  Meeting Group IX (lunch-box provided)

13.45 - 18.15  Technical tour

Workshop

Welfare implications arising from the broiler breeder paradox

Welfare issues of fast and more slowly growing broiler breeders including hunger due to restricted feeding, over-mating, injuries, and housing conditions will be discussed. The aim of the workshop is to discuss areas for future research and to promote collaboration and interactions between scientists, industry, and legislators.

The Workshop will be held in the afternoon on Wednesday, 21th June 2017, in ISPAIA - Zoopole Développement, Ploufragan.

The number of registrations for the workshop is limited so if you want to take part into the workshop, please complete the form and send it to: contact@poultrywelfare2017.com

You will receive a confirmation of your registration to the workshop then.

The organizers:
The breeders: