

Thursday, October 4th

10:30-11:30 **Registration**

11:45-12:30 **Welcome and lunch buffet**

12:30-12:45 **Marleen Boerjan and Dinah Nicholson**
Introduction to programme

Session 1: Embryo quality, egg handling and egg storage

12:45-13:30 **Anke Förster, Lohmann Tierzucht GmbH, Germany**
In ovo sex determination: where are we now?

13:30-14:10 **Murray Bakst PhD, consultant, USA**
Let's talk about isolating and staging embryos

14:10-14:30 **Ewa Łukaszewicz, University of Wroclaw, Poland**
Stage of goose embryo development at oviposition depending on genotype, age and laying period

14:30-14:50 **Ampai Nangsuay, Aviagen, Thailand**
Effects of egg handling in tropical climate SPIDES on embryo stages

14:50-15:00 **Plenary questions and discussion**

15:00-15:30 **Coffee/tea break**

15:30-15:50 **Joanna Rosenberger, University of Wroclaw, Poland**
Egg turning in Capercaillie (*Tetrao urogallus*)

15:50-16:10 **Okan Elibol, Ankara University, Turkey**
The effect of rapid cooling rate of broiler hatching eggs after oviposition on embryonic development and hatchability

16:10-16:30 **Tolga Erkus, Aviagen, UK**
Effect of SPIDES duration and flock age on embryonic development and hatchability of long-stored grandparent eggs

16:30-16:45 **Plenary questions and discussion**

16:45-17:45 **POSTER AND DEMONSTRATION SESSION**

16:45-17:45 **Practical demonstration session "Staging the Embryo"**
Murray R Bakst (*consultant addressing issues in fertility and early embryo mortality*)

19:00 CONFERENCE DINNER

Friday October 5th

Session 2: Egg quality

- 09:00-09:20** **Marleen Boerjan**, *Pas Reform, The Netherlands*
Differentiation of embryonic cells as a result of gastrulation-related movements in the blastoderm
- 09:20-09:40** **Roger Banwell**, *Petersime nv, Belgium*
Effect of specific gravity of hatching eggs and relative humidity on egg weight loss and hatchability
- 09:40-10:30** **Maureen Bain**, *University of Glasgow, UK*
Hatching egg quality – with a focus on the cuticle
- 10:30-10:40** **Plenary questions and discussion**
- 10:40-10:50** **Anne Collin**, *INRA, France*
Introduction to combined meeting 2019 in Tours
- 10:50-11:15** **Coffee Break**

Session 3: Epigenetics, incubation and chick vitality

- 11:15-12:15** **Warren Burggren**, *University of North Texas, USA*
Epigenetics and incubation: short- and long-term implications for scientists and practitioners
- 12:15-12:30** **Plenary questions and discussion**
- 12:30-13:00** **Lunch Buffet**
- 13:00-13:20** **Juan Lopez**, *Hendrix Genetics, Canada*
Improper incubation temperature can contribute to lower hatchability and compromise poult quality
- 13:20-13:40** **Serdar Özlü**, *Faculty of Agriculture, Ankara University, Turkey*
Effect of hatching time and post-hatch holding time on yolk sac weight and broiler live performance
- 13:40-14:00** **Keith Bramwell**, *Jamesway Incubator Company, Canada*
Effect of early feed and water access on broiler performance and processing yield
- 14:00-14:20** **Roos Molenaar**, *Wageningen University Research, The Netherlands*
Eggshell temperature pattern during incubation affect leg bone characteristics of broiler chickens at slaughter age
- 14:20-14:40** **Joanna Rosenberger**, *University of Wroclaw, Poland*
Nesting behaviour during egg laying period in captive kept Capercaillie
- 14:40-15:00** **Jean De Oliveira**, *Cargill, Belgium*
Assessment of food safety risk and microbiome links from breeders through hatchery to meat broilers under commercial conditions
- 15:00-15:20** **Amjad Farzinpour**, *University of Kurdistan, Iran*
Use of aromatase inhibitor as an alternative for contraception in laying quails
- 15:20-15:40** Presentation offered by **Muntaser Salem**, *Institute Poultry Resources, Amman, Jordan*
- 15:40-16:00** **Coffee Break**
- Close and future meetings - **Marleen Boerjan**

Posters

Alessandro Franzoni, *University of Pisa, Italy*

Incubation traits and embryo development in two broiler breeder pure lines divergently selected on their energetic status

Ewa Łukaszewicz, *University of Wrocław, Poland*

Effect of some organic additives to semen extender on rooster sperm quality after 6 hours of storage

Anne Collin, *INRA, Université de Tours, France,*

Multigenerational effects of heat manipulation during embryogenesis on body temperature and growth in broiler chickens

Julia George, *Queen Mary University of London, UK*

Rapid experience-dependent changes in DNA methylation in songbird brain

Okan Elibol, *Ankara University, Turkey,*

Effect of flock age, frequency of turning and SPIDES during storage on embryonic development, and hatchability of long stored eggs

Sylvain Briere, *Hendrix Genetics Turkeys, France*

Optimisation of turkeys' egg fertility and poult quality at onset of lay

Alessandro Franzoni, *University of Pisa, Italy*

Laying performances and egg quality in two broiler breeder pure lines divergently selected on their meat ultimate pH.