



WAGENINGEN  
UNIVERSITY & RESEARCH

Animal

## Course

# Incubation Biology and Hatchery Management

**What is the best way to store and treat eggs before incubation? How does incubation temperature influence the development of the embryo? What are the best practices during the hatching phase? In the last two decades knowledge about incubation has increased, but still numerous new questions and doubts are present. In the course 'Incubation biology and hatchery management', new insights from research and developments in the field are presented. The programme is an excellent opportunity to deepen your knowledge and understanding of incubation biology and hatchery management.**

## Target Group

The course is aiming at enriching knowledge of professionals (academic level) and is intended for hatchery managers, poultry biologists, incubator manufacturers, engineers, poultry breeding companies, technical managers of poultry integration companies, veterinarians, researchers and teachers in poultry science. Furthermore, participants from the supplying industry and governments are welcome in this course.

## Result

After completing the course, you are updated with the latest scientific insights regarding best practices of incubation biology and hatchery management. Furthermore, you will be able to apply them in your daily practice as the knowledge is translated into practical applications.

**Location:**

**Wageningen**

**Dates:**

**16 and 17 March 2020**

**Courseleaders:**

**Dr Henry van den Brand, Wageningen University & Research  
Dr Ron Meijerhof, Poultry Performance Plus**

## Our approach

The course includes a variety of presentations spread over two consecutive days. The topics are introduced by a number of experts. There will be sufficient opportunity for discussion. In this course we will pay attention to the following subjects:

- The early biology of the developing embryo
- Pre-incubation and storage factors of eggs
- Incubation temperature during the setter and the hatching phase and consequences for later life
- Alternative hatching systems and early nutrition
- Hatchery hygiene
- Hatchery automation and chick handling
- In ovo sexing
- Big data in the hatchery



## Practical information

### Course fee

The course fee of €1295,- includes tuition, course materials, coffee/tea, two lunches, two network drinks and a welcome dinner on day 1.

### Registration

Registration closes at 17 February 2020, or if the maximum number of participants is reached. Three weeks before the course starts, participants will receive additional information about the course. Registration is possible via [www.wur.nl/academy](http://www.wur.nl/academy).

### General terms and conditions

The general terms and conditions of Wageningen Academy can be read at [www.wur.nl/academy](http://www.wur.nl/academy).

## Programme

### Day 1 Monday 16 March 2020

- **Introduction incubation biology and management**  
*Dr Henry van den Brand, Wageningen University & Research*
- **Biology of the early developing embryo**  
*Dr Marleen Boerjan, Pas Reform B.V*
- **Hatching egg management**  
*Dr Ron Meijerhof, Poultry Performance Plus*
- **Pre-incubation and storage factors for incubation eggs**  
*Dr Henry van den Brand, Wageningen University & Research*
- **Physics of incubation**  
*Dr Ron Meijerhof, Poultry Performance Plus*
- **Incubation temperature during the setter and hatcher phase**  
*Dr Henry van den Brand, Wageningen University & Research*
- **Consequences of incubation settings for later life**  
*Dr Ron Meijerhof, Poultry Performance plus*

### Day 2 Tuesday 17 March 2020

- **Alternative hatching systems and early nutrition** *Dr Henry van den Brand, Wageningen University & Research*
- **Hatchery hygiene**  
*Dr Roos Molenaar, Wageningen University & Research*
- **(In ovo) vaccination in the hatchery**  
*Dr Pieter Kühne, Veterinary Poultry Consultant*
- **Solving the male chick problem, with in ovo sexing**  
*Drs. Wouter Bruins, In Ovo*
- **Hatchery automation and chicken handling**  
*Drs. Wessel Swart, CEVA*
- **Biostatistics and big data analytics in the hatchery**  
*Dr Kristof Mertens, Evonik Porphyrio*



## Our offer

Wageningen Academy also offers in company training, distance learning modules and summer schools. Check our website for more options.

## Contact

### Program manager

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tomorrow's business