

AVIAN EGG INCUBATION WORKSHOP

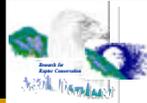
Oropesa, Toledo, Spain. 1-3 October 2009

EAGLE CONSERVATION ALLIANCE (E.C.A)



The avian egg incubation workshop consists of three full days. In the classroom, participants will review the basics of development of both the embryo and its membranes, learn about factors affecting hatchability before and during incubation and discuss techniques of hatchery management including equipment selection and operation, egg weight loss management and hatchability analysis. The lab focuses on breaking out embryos at all stages of development (older embryos are not live) and gives hands-on practice with candling techniques, egg repair, hatching assistance and egg necropsy

LOS ANGELES



WORKSHOP FACILITATORS

Susie Kasielke started her career as an Animal Keeper at the Los Angeles Zoo 1977 and has been Curator of Birds there since 2001. She earned a bachelor of science degree in Avian Sciences at the University of California at Davis. Through her involvement with the California Condor Recovery Program, she worked with the staff at Los Angeles and other facilities to develop and refine propagation, incubation and rearing methods for condors and other species. She has been teaching workshops on avian egg incubation for zoo groups in North America for 16 years

Pat Witman has a Zoology degree from Humboldt State University. Pat began working for the San Diego Zoo where she has been for almost 30 years with 20 of those years being involved with artificial incubation and hand rearing at the Zoo's Avian Propagation Center (APC). The APC has hatched almost 300 avian species, including the first California Condor. Pat has been dedicated to not only improving the skills necessary for success, but also to sharing these techniques with others. Pat joined forces with Susie Kasielke two years ago to combine their knowledge into the actual workshop format.

Juan M Blanco DVM, PhD & **Ursula Höfle** DVM, PhD have been working for over 20 years as veterinarians for endangered avian species in different institutions including: the Center for Research on Iberian Raptors (CERI), the Institut für Geflügel Krankheiten, the Institute for Research on Game Species (IREC), or The Department of Conservation New Zealand Government. They have developed a background on avian pathology, reproduction and epidemiology as essential tools for avian conservation medicine. They are consultants for different captive breeding and propagation programs for endangered avian species like the Kakapo, the Spanish Imperial Eagle, or the Bearded Vulture.

DAY 1 01 October 2009.

PROGRAM

Lecture and Discussion 8 am-12 am

- * Introduction
- * Egg formation and Structure
- * Extraembryonic membranes
- * Stages of Development (Early)
- * Factors Affecting Hatchability
 - Prior to Ovoposition
 - Between Ovoposition & Incubation
 - During Incubation

Lab 2 pm-6 pm

- * Overview
- * Candling Demonstration
- * Breakout of Normal Stages (Early)
- * Egg repair
- * Egg Dipping

DAY 2 02 October 2009-03-21

Lecture & Discussion 8 am-12 noon

- * Stages of Development (Late)
- * Hatchery Management
 - Design
 - Equipment
 - Sanitation
- * Egg monitoring
 - Candling
 - Egg Weight loss Management
 - Record Keeping
- * The Hatching Process

Lab 2 pm-6 pm

- * Candling Demonstration
- * Breakout of Normal Stages (Late)
- * Hatching Assistance
- * Data recording

DAY 3 - 03 October 2009

Lecture & Discussion 8 am-12 noon

- * Egg Weight loss Management (Cont)
- * Problems & Assistance during Hatching
- * Investigating embryonic mortality
 - Egg Necropsy.
 - Infectious diseases.
 - Pollutants.
 - Eggshell ultrastructure.
- * Review and Discussion

Lab 2 pm-6 pm

- * Candling Demonstration
- * Review of all normal stages
- * Breakout of Abnormal Treatment
- * Egg Necropsy
 - Protocols.
 - Sample collection and processing

REGISTRATION

ACCOMMODATION

Course will be host at Oropesa, Toledo, Spain, a medieval village located 150 km away from Madrid. The Organization has arranged special discount packages at certain hotels in Oropesa for registered participants. For more information please contact aquila.foundation@hotmail.com

IMPORTANT NOTE

The present course has been arranged thanks to the generosity of the facilitators and their institutions. All the money generated through registration fees will serve to support ECA eagle conservation programs around the world.

The present course is open to anyone interested or specializing in avian artificial incubation. Registration fee is 150 Euro before May 31, and 200 Euro after that date and includes: a diploma of the course, proceedings with lectures, practical labs, pictures and bibliography as well as coffee breaks. A 50 Euro discount is applicable at any time to: (1) students of any discipline that can prove that circumstance, and (2) ECA members or professionals with accepted registration for the next ECA Annual Conference. Availability is limited and therefore acceptance reserved. Interested in getting registered please fill the following registration data and send them to: aquila.foundation@hotmail.com Full Name, Institution/affiliation, Working field or interest, Phone number, Email, Once you receive an email of acceptance of your registration please proceed to transfer the corresponding amount to the following account: Name: Fundación Aquila, Address: C/General Díaz Porlier 15 4ºD, 28001 Madrid, Spain. Bank: La Caixa. Address: La Nava de Ricomalillo, Toledo, Spain. IBAN: ES42 2100 1682 7102 0001 3154. SWIFT: CAIXESBBXXX