**COURSE PROGRAM**

**Day 1 - Monday 9.10.2017 - Reproduction and breeding management**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30 – 09.00</td>
<td>Registration, welcome and introduction</td>
</tr>
<tr>
<td>09.00 – 10.30</td>
<td>Specificity of the ovarian cycle in the bitch and queen W. Nizanski</td>
</tr>
<tr>
<td>10.30 – 11.00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11.00 – 12.30</td>
<td>Investigating ovarian and uterine function A. Fontbonne</td>
</tr>
<tr>
<td>12.30 – 14.00</td>
<td>Lunch</td>
</tr>
<tr>
<td>14.00 – 15.30</td>
<td>Practice (2 groups) : Vaginal smear/hormone assays/how to interpret hormone assays A. Fontbonne/W. Nizanski</td>
</tr>
<tr>
<td>15.30 – 16.00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>16.00 – 17.15</td>
<td>Breeding management and breeding failures A. Fontbonne</td>
</tr>
<tr>
<td>17.15 - 17.45</td>
<td>Round table - most interesting clinical cases / Speakers and participants</td>
</tr>
</tbody>
</table>

**Day 2 - Tuesday 10.10.2017 – The pregnant bitch**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30 – 09.30</td>
<td>Physiology and endocrinology of pregnancy. Pregnancy diagnosis and monitoring, foetal biometry</td>
<td>M. Beccaglia</td>
</tr>
<tr>
<td>09.30 – 10.00</td>
<td>Pregnancy at risk - monitoring and management</td>
<td>M. Beccaglia</td>
</tr>
<tr>
<td>10.00 – 10.15</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>10.15 – 11.00</td>
<td>Parturition monitoring – normal parturition</td>
<td>A. Münnich</td>
</tr>
<tr>
<td>11.00– 12.00</td>
<td>Dystocia – diagnosis and medical management</td>
<td>A. Münnich</td>
</tr>
<tr>
<td>12.00 – 13.30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13.30 – 14.15</td>
<td>Practice (2 groups): Ultrasonography - non-pregnant bitch</td>
<td>M. Beccaglia/G. Mantziaras</td>
</tr>
<tr>
<td>14.15 – 15.00</td>
<td>Practice (2 groups): Ultrasonography - pregnant bitch</td>
<td>M. Beccaglia/G. Mantziaras</td>
</tr>
<tr>
<td>15.00 – 15.30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>15.30 – 16.15</td>
<td>Surgical treatment of dystocia (Caesarian section), care of the neonate</td>
<td>A. Münnich</td>
</tr>
<tr>
<td>16.15–17.00</td>
<td>C-section: optimal anaesthesia and analgesia</td>
<td>A. Münnich</td>
</tr>
<tr>
<td>17.00-17.30</td>
<td>Round table-most interesting clinical cases / Speakers and participants</td>
<td></td>
</tr>
</tbody>
</table>

Day 3 - Wednesday 11.10.2017 - Mating, assisted mating, and artificial insemination.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30 – 09.15</td>
<td>Techniques for artificial insemination in the bitch</td>
<td>X. Levy</td>
</tr>
<tr>
<td>09.15 – 10.00</td>
<td>Collection and assessment of fresh semen</td>
<td>X. Levy</td>
</tr>
<tr>
<td>10.00 – 10.30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>10.30 – 11.15</td>
<td>Semen preservation: chilling and freezing-thawing</td>
<td>X. Levy</td>
</tr>
<tr>
<td>11.15 – 12.00</td>
<td>Semen examination</td>
<td>X. Levy</td>
</tr>
<tr>
<td>12.00 – 13.30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13.30 – 15.00</td>
<td>Practice (2 groups): Semen collection demonstration and training</td>
<td>X. Levy/W Nizanski</td>
</tr>
<tr>
<td>15.00–15.30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>15.30 – 16.30</td>
<td>Legal and zootchnical aspects of semen banking and exchange</td>
<td>X. Levy</td>
</tr>
<tr>
<td>16.30 – 17.00</td>
<td>Ethics in breeding</td>
<td>H. Övregaard</td>
</tr>
<tr>
<td>19.00</td>
<td>Course dinner</td>
<td></td>
</tr>
</tbody>
</table>

Day 4 - Thursday 12.10.2017 – Control of the reproductive cycle, infertility

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30 – 09.00</td>
<td>Abnormal estrous cycles</td>
<td>S. Arlt</td>
</tr>
<tr>
<td>09.00 – 9.30</td>
<td>Induction of estrus</td>
<td>S. Arlt</td>
</tr>
<tr>
<td>09.30 – 10.00</td>
<td>Ovarian Remnant Syndrome</td>
<td>S. Arlt</td>
</tr>
<tr>
<td>10.00 – 10.30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>10.30 – 11.15</td>
<td>Spaying - what is optimal?</td>
<td>S. Arlt</td>
</tr>
<tr>
<td>11.15 – 12.00</td>
<td>Pregnancy prevention and termination</td>
<td>S. Arlt</td>
</tr>
<tr>
<td>12.00 – 13.30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13.30 – 15.00</td>
<td>Practice : Insemination training vaginal and cervical (2 groups)</td>
<td>X. Levy/W. Niżański</td>
</tr>
<tr>
<td>15.00–15.30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>15.30 – 17.00</td>
<td>Practice : Insemination training cervical endoscopy (2 groups)</td>
<td>X. Levy/W. Niżański</td>
</tr>
<tr>
<td>17.00-17.30</td>
<td>Round table-most interesting clinical cases / Speakers and participants</td>
<td></td>
</tr>
</tbody>
</table>
Day 5 - Friday 13.10.2017 - Diseases of the reproductive organs

08.30 – 09.30  Postpartum disorders - C. Lefévre
09.30 – 10.00  Mammary gland disorders of the non-lactating bitch - S. Schäfer-Somi
10.00 – 10.30  Coffee break
10.30 – 11.00  Managing mammary tumors – S. Schäfer-Somi
11.00 – 11.30  Ovarian diseases - S. Arlt

11.30 – 12.00  Vaginal diseases – C. Lefévre
12.00 – 13.30  Lunch
13.30 – 15.00  Uterine diseases - diagnosis and treatment R. Hagman
15.00 – 15.30  Coffee break
15.30 – 16.00  Responsible use of antimicrobials in reproduction – H. Övregaard
16.00 – 16.45  Most interesting cases - Speakers and participants
16.45 – 17.00  Closing, and … follow up  Course leaders / EVSSAR Board

Course Master:
Professor Wojciech Niżański DVM PhD
Head of Department of Reproduction, Faculty of Veterinary Medicine
Wroclaw University of Environmental and Life Sciences
pl. Grunwaldzki 49, 50-366 Wroclaw, Poland
Phone 48 71 32 05 315 (302)

Confirmed speakers:
Professor Wojciech Niżański DVM PhD, Poland
Professor Alain Fontbonne DVM PhD Dipl. ECAR, France
Dr. Michela Beccaglia DVM PhD Dipl. ECAR, Italy
Dr. Andrea Münnich DVM PhD Dipl. ECAR; Germany
Dr. George Mantziaras DVM PhD ECAR Resident, Greece
Dr. Xavier Levy DVM PhD Dipl ECAR, France
Dr. Sebastian Arlt DVM PhD Dipl ECAR, Germany
Dr. Helen Övregaard DVM, Norway
Dr. Catherine Lefévre DVM Dipl ECAR, Belgium
Professor Sabine Schäfer-Somi DVM Dipl ECAR, Austria
Associate professor R. Hagman DVM PhD ECAR Resident, Sweden