

2018 CETA/ACTE & AETA JOINT CONVENTION – September 26-29
Hôtel Bonaventure Montréal, Montréal, Québec, Canada

TENTATIVE PROGRAM

(subject to change)

WEDNESDAY, SEPTEMBER 26

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|--------------------|---|
| 7:00 AM – 5:00 PM | AETA Board of Directors meeting |
| 7:00 AM – 5:00 PM | AETA Certification Committee Meeting |
| 8:00 AM – 11:00 AM | CETA/ACTE Certification Committee meeting |
| 11:00 AM – 5:30 PM | CETA/ACTE Board of Directors meeting |
| 1:00 PM – 5:00 PM | CETA/ACTE Certification Exam <i>(for initial certification)</i> |

THURSDAY, SEPTEMBER 27

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| 6:00 AM – 2:00 PM | Golf Tournament at <i>Club de Golf de l'île de Montréal</i>
<i>Sponsored by Partner Animal Health & Reproduction Resources</i> |
| 8:00 AM – 12:00 PM | CETA/ACTE Certification Exam REVIEW <i>(for applicants who wrote the exam)</i> |
| 8:00 AM – 12:00 PM | AETA Certification Committee Meeting |
| 9:00 AM – 12:00 PM | AETA Certification Exam <i>(for initial certification)</i> |
| 11:00 AM – 5:00 PM | Registration |
| 12:00 PM – 5:00 PM | Exhibit Set-up |

PRE-CONFERENCE SEMINARS:

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| 2:00 PM – 5:00 PM | <p>SEMINAR I: ET 101 – A 2018 Update</p> <p>Presented by Dr. John Hasler, Vetoquinol USA & Dr. Reuben Mapletoft, Western Veterinary College, Saskatoon, Canada</p> <p><i>This presentation will outline the basics of bovine embryo transfer, but with a difference. Not only will traditional procedures be described, but newer developments in the technology will be discussed. The speakers have considerable experience over a considerable number of years, so they have some idea of potential pitfalls. They will attempt to point out how success can be achieved and failures avoided.</i></p> <p><i>Sponsored by MOFA Global</i></p> |
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SEMINAR II: ET 102 BY RQR

Sponsored by RQR - Réseau Québécois en reproduction

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| 2:00 PM – 2:15 PM | Introduction by Dr. Claude Robert, Université Laval, Québec, Canada |
| 2:15 PM – 2:45 PM | <p>Nutrition and oocyte quality</p> <p>Presented by Dr. Marc-André Sirard, Université Laval, Québec, Canada</p> <p><i>The ovary is sensitive to the metabolic environment and the growing follicle will respond to negative energy balance during the post-partum period. Our analysis indicates that the nutritional environment, especially vitamins, may have an effect on the follicular physiology and consequently on oocyte quality.</i></p> |
| 2:45 PM – 3:15 PM | <p>Mycotoxins in Cows: Risks and Some Solutions</p> <p>Presented by Dr. Younes Chorfi, Université de Montréal, St-Hyacinthe, Québec, Canada</p> <p><i>In dairy industry, Feed contamination with mycotoxins is daily challenge for producer and veterinarians. Direct and indirect effects of some mycotoxins such as DON and ZON on reproduction should be rapidly recognized and controlled to minimize health impacts and economic losses associated with these contaminations.</i></p> |

THURSDAY, SEPTEMBER 27 *continued...*

3:15 PM – 3:45 PM Coffee break

3:45 PM – 4:15 PM Sexed Semen Fertility

Presented by Dr. George Seidel, Colorado State University, Colorado, USA

This presentation will provide the latest information on fertility of sexed semen compared to control, non-sexed semen used under similar circumstances. Results depend on the populations studied and level of management. Factors affecting fertility of sexed semen will also be presented, such as fresh vs frozen semen, number of sperm per inseminate, etc.

4:15 PM – 4:45 PM Questions & General Discussion

By Dr. Claude Robert, Université Laval, Québec, Canada

5:30 PM – 10:00 PM Pre-conference Social: 'Centre des Sciences' in Old Montréal with show by Alain Choquette
Sponsored by Vetoquinol

FRIDAY, SEPTEMBER 28

6:45 AM – 5:00 PM Registration

6:45 AM – 7:45 AM Breakfast

Sponsored by Professional Embryo Transfer Supply, Inc. (PETS, Inc.)

6:45 AM – 5:00 PM Exhibits open

7:45 AM – 8:00 AM Welcome & Introduction

Friday Audio-Visual Equipment sponsored by ABT 360, LLC8:00 AM – 9:00 AM **SESSION 1:** Oviductal and early uterine effects on pregnancy success

Presented by Dr. Mario Binelli, University of Florida

Biochemically well-defined oviductal and uterine luminal environments are required for successful pre-implantation embryo development in cattle. Developmental needs of the growing embryo/conceptus are expected to change over time. In this presentation, we will discuss specific mechanisms that must be in place to execute the dynamic changes needed to generate and modify the luminal molecular compositions required to support early pregnancy events.

9:00 AM – 10:00 AM **SESSION 2:** Breed associated embryo freezing capacity

Presented by Dr. Claude Robert, Université Laval, Québec City, Québec, Canada

Embryos are not all equal in their capacity to survive freezing. Several environmental factors affecting cryopreservation survival rates have been identified. In addition, the genetic background is also an important factor to consider.

9:30 AM – 4:30 PM Companion Tour: City Tour of Montréal

10:00 AM – 10:30 AM Break

Sponsored by Professional Embryo Transfer Supply, Inc. (PETS, Inc.)10:30 AM – 12:00 PM **Student/Technician Session 1:** Damage prevention at storage and transportation of frozen bovine embryos.

Presented by Dr. Angelika Stock, Services mobiles de theriogenologie-Chambly-St. Hyacinthe, Chambly, Quebec, Canada

The quality and therefore the success of implanting frozen bovine embryos can be greatly diminished by careless storage and wrong handling during their sale and transport. This presentation will discuss simple but important steps to be considered.

FRIDAY, SEPTEMBER 28 <i>continued...</i>	
10:30 AM – 12:00 PM	AETA Business Meeting
10:30 AM – 12:00 PM	CETA/ACTE Annual General Meeting
12:00 PM – 1:00 PM	Lunch
12:00 PM – 1:00 PM	AETA New Board of Directors meeting
12:00 PM – 1:00 PM	CETA/ACTE New Board of Directors meeting
12:00 PM – 1:00 PM	Student / Mentor lunch
1:00 PM – 2:00 PM	<p>SESSION 3: IVF calves: challenges and opportunities!</p> <p>Presented by Dr. Gilles Fecteau, Université de Montréal, St-Hyacinthe, Québec, Canada</p> <p><i>The IVF calves are representing some particular challenges. It is very important for the practitioners to anticipate some of the common problems to be prepared to respond promptly. As this can be viewed as a problem, it also represents a great opportunity to offer high quality of medical services for the neonatal calves. The presentation will cover some aspects where the veterinarians can make a difference in the outcome.</i></p>
2:00 PM – 3:00 PM	<p>SESSION 4: What is genomics and epigenomics</p> <p>Presented by Dr. Claude Robert, Université Laval, Québec City, Québec, Canada</p> <p><i>The goal is to brush a portrait of genetic selection through the traditional means to estimate breeding values as well as the new revolution that has arisen with genomics. It will also bring a perspective view of the next wave that is emerging behind genomics that is epigenomics.</i></p>
3:00 PM – 3:30 PM	<p>Break</p> <p><i>Sponsored by Professional Embryo Transfer Supply, Inc. (PETS, Inc.)</i></p>
3:30 PM – 4:45 PM	<p>SESSION 5: The use of SexedULTRA 4M on FTAI and SOV for embryo production including IVF.</p> <p>Presented by Dr Alfredo Castro, STgenetics, Navasota, Texas, USA</p> <p><i>Applications, production and fertility of SexedUltra 4M semen for FTAI in beef and dairy cattle. SOV protocols results with SexedUltra 4M in ST Genetics flush and IVF programs, in heifers and cows from different sites around the world.</i></p> <p><i>Sponsored by STgenetics & STgenetics Canada</i></p>
6:00 PM – 7:00 PM	<p>Social Hour</p> <p><i>Open bar sponsored by Reproduction Resources</i></p>
7:00 PM – 10:00 PM	<p>Banquet</p> <p>Entertainment by: The Lost Fingers</p>
SATURDAY, SEPTEMBER 29	
6:30 AM – 8:00 AM	AETA Past Presidents' Breakfast
7:00 AM – 5:00 PM	Registration
7:00 AM – 2:00 PM	Exhibits Open
7:00 AM – 8:00 AM	Breakfast
8:00 AM – 10:00 AM	<p>CETA/ACTE Session:</p> <p>Today's Trends and Tools in Dairy Cattle Selection</p> <p>Presented by Dr. Allison Fleming, Canadian Dairy Network (CDN) Geneticist, Guelph, ON, Canada</p> <p>Breeding hornless cattle to improve animal well being</p> <p>Presented by Dr. François-Xavier Grand, Boviteq LP, Saint-Hyacinthe, QC, Canada</p>

SATURDAY, SEPTEMBER 29 *continued...*

8:00 AM – 10:00 AM	AETA Certification Session
8:00 AM – 10:00 AM	<p>Student/Technician Session 2:</p> <p>i) Ultrasonography and endocrine parameters in recipients with successful embryo transfer. <i>The decision to transfer an embryo or not at the time of recipient presentation is not always easy. This presentation summarizes the literature on endocrine parameters such as progesterone and estradiol levels at time of transfer as well as exogenous hormone application at time of transfer. Ultrasonographic observations of ovaries and uterus including some own data will be discussed.</i></p> <p>ii) Sanitary considerations at collection, search, freezing and transfer of bovine embryos. <i>Recent studies showing that certain microbes may survive the freezing process of embryos and cause early pregnancy failure make it seem important to review and reconsider our current sanitary protocols during embryo collection until transfer. Recent literature, current washing and freezing protocols as well as additional techniques will be discussed.</i></p> <p>Presented by Dr. Angelika Stock, Services mobiles de theriogenologie-Chambly-St. Hyacinthe, Chambly, Quebec, Canada</p>
10:00 AM – 4:00 PM	Companion Tour: The Richelieu Valley
10:00 AM – 10:30 AM	<p>Break</p> <p><i>Sponsored by Minitube USA, Inc.</i></p>
10:30 AM – 11:00 AM	<p>SESSION 6: Starting an oocyte collection lab and incorporating IVF into regular ET practice</p> <p>Presented by Dr. Rob Stables, Bow Valley Genetics, Brooks, Alberta, Canada</p> <p><i>Dr. Stables will detail some of the tribulations of adding this technique to an ET practice, the benefits it has provided, and some practice tips for ET and IVF practice.</i></p>
11:00 AM – 11:30 AM	<p>SESSION 7: Conception of a bovine ovum pick up mobile unit lab</p> <p>Presented by Dr. Jonathan Lehouiller, Clinique Vétérinaire Centre du Québec, Notre-Dame-du-Bon Conseil, Québec, Canada</p> <p><i>Are you interested in learning more about bovine Ovum Pick-Up on farm? We will discuss how we developed our mobile unit, its conception, design and requirements. We will present some advantages of an OPU mobile unit, and talk about our last 2 years' experience with it.</i></p>
11:30 AM – 12:00 PM	<p>SESSION 8: IVP embryo evaluation for the receiving practitioner</p> <p>Presented by Patti Anderson & Dr. Jeff Anderson, Trans Ova Genetics, Richland, WA, USA</p> <p><i>Understanding the Day 6 embryo prediction process and how this translates into Day 7 results for the receiving embryo practitioner. How to receive, unload, and evaluate IVP embryos utilizing current IETS guidelines.</i></p>
12:00 PM – 1:15 PM	Lunch
12:00 PM – 1:15 PM	AETA & CETA/ACTE Joint Convention Committee meeting
1:15 PM – 2:15 PM	<p>SESSION 9: Impact of early life nutrition on the sexual development and fertility of cattle</p> <p>Presented by Dr. David Kenny, TEAGASC, Ireland</p> <p><i>The presentation will cover recent research into the effect of early life nutrition on the sexual maturation of both bulls and heifers including physiological, endocrinological and molecular based responses, age at onset of puberty and subsequent fertility. It will also touch on the influence of pre-natal maternal nutrition on the reproductive development of their progeny as well as the efficacy of some dietary supplementation strategies to augment post pubertal fertility.</i></p>

SATURDAY, SEPTEMBER 29 *continued...*

2:15 PM – 3:15 PM	<p>SESSION 10: The au courant developments in sex sorted semen and applications in embryo technology programs</p> <p>Presented by Dr. R (Vish) Vishwanath, STgenetics, Navasota, Texas, USA</p> <p><i>It is fair to say that sex-sorting of semen has “come of age” as it has entered a new era with advanced biochemical techniques and high throughput machinery. This has made the technology easily accessible with the performance of the product improving continually. The original application portal for sex-sorted semen was through IVF platforms but over time the dairy and beef industries have adopted this technology widely in AI programs. Current progress in the application of sex sorted semen in embryo technology programs will be discussed.</i></p> <p><i>Sponsored by STgenetics & STgenetics Canada</i></p>
3:15 PM – 3:30 PM	<p>Break (Coffee/Beverages Only)</p> <p><i>Sponsored by Minitube USA, Inc.</i></p>
3:30 PM – 4:30 PM	<p>SESSION 11: The potential pathogenic role of <i>Ureaplasma diversum</i> in bovine embryo transfer</p> <p>Presented by Dr. Bronwyn Crane, Atlantic Veterinary College, University of Prince Edward Island, Prince Edward Island, Canada</p> <p><i>Ureaplasma diversum is a known commensal of the bovine reproductive tract and has been associated with vaginitis, spontaneous abortion, infertility and neonatal death. This pathogen has a known ability to persist on embryos following standardized embryo flush washing procedures. This presentation will discuss the epidemiology of U. diversum as well as case reports and investigations into the potential for spread of the organism associated with embryo transfer.</i></p>
4:30 PM – 5:30 PM	<p>SESSION 12: Early pregnancy losses in dairy cattle: importance, predisposing factors, and implications for management</p> <p>Presented by: Dr. Eduardo de Souza Ribeiro, University of Guelph, Guelph, Ontario, Canada</p> <p><i>The average conception risk in North American dairy herds has been suboptimal and stagnant for many years. Early pregnancy losses are substantial and contribute importantly to low conception risk and consequent reproductive inefficiency of lactating cows. These losses can be minimized by reducing the prevalence of predisposing factors and by genetic selection for fertility traits.</i></p>
5:30 PM – 5:45 PM	Closing Remarks