Greetings from Wisconsin!

In February, the board of directors met at the FASS headquarters in Savoy, Illinois. Jamie Ritter and Kathy Ruff were present during the meeting, and other FASS staff contributed as needed. Throughout the day, every board member was fully engaged in the process of dealing with the association’s most pressing issues. We presented issues, discussed different viewpoints, took action, and moved on to the next topic. Thanks to all of the board members and FASS staff for their energy and contributions.

The board of directors discussed the concept of creating additional levels of recognition. Individual members of our board have been ET service providers throughout their careers, and they have very different perspectives. Several strong, but very different, opinions were expressed, and in the end we agreed to continue to explore this concept.

The present certification committee and Steve Malin, chairman, have been asked by the board of directors to form a task force for the purpose of defining a new recognition program. There are many talented people in our association who have expressed a strong interest in this recognition issue, so now is the opportunity for those proponents to put their ideas into action. Jeanne Reyher has agreed to lead the task force and welcomes your input by email at reyherembryonics@aol.com.

The task force will gather information and present their ideas to the certification committee for further consideration.

Certainly, there are many constraints to the development of a new recognition program, but let’s take the first step by defining what the program might be. Let’s consider the opportunities it may bring to the association and our members and then consider the obstacles. By listening to this group of our members, we can decide on the best course for the association.

In unfinished business, we took on the by-laws revisions. At the business meeting in Kansas City, the concept of a professional membership level received insufficient support. After several members expressed their concerns, the motion was withdrawn and referred back to the board for further consideration. At our winter meeting, the board revised membership classifications to combine the proposed professional continued on p. 2
AETA Headquarters Directory

Vicki Paden, AETA Administrative Assistant

As the AETA Administrative Assistant, Vicki works with the AETA members on day-to-day issues. She updates the AETA membership database, processes memberships, renewals, meeting registrations, orders, claims, invoices and responds to e-mail. She is also the helpful, friendly voice on the other end of the phone when you call the AETA line.

Kathy Ruff
Executive Assistant/Event Coordinator
(aeta@assochq.org)

As the Executive Assistant/Event Coordinator, Kathy will be working with the AETA members on everything from day-to-day issues, membership questions and renewals, meeting registrations, Japan certificates, as well as planning the Board of Directors’ meetings and annual conventions. Kathy will also serve as the coordinator for the AETA newsletter, A Closer Look. Kathy is looking forward to working with AETA and its membership.

Newsletter Advertising 2009
Publication Schedule and Deadlines
The AETA newsletter is published four times per year and is mailed to all AETA members. Distribution is between 350-400 professionals in the animal embryo transfer industry.

Members – Advertise FREE with us!
Members wishing to place an advertisement related to sale of practice, buying and selling of used equipment, or employment opportunities may do so free of charge (up to 1/8 page). The advertising information (i.e., short courses, seminars, books, etc.) that is clearly to the benefit of the greater good of the AETA membership, and not considered to be of a commercial nature, may also be advertised free of charge (up to 1/8 page). Standard rates on any advertisements over 1/8 page shall apply. Any advertising request, which does not fit within these guidelines, shall be brought to the Newsletter Committee for approval. The same rationale shall apply to any Web site advertising.

A Closer Look Advertising Rates

<table>
<thead>
<tr>
<th>Business Card Size:</th>
<th>$50 per issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 Page Ad:</td>
<td>$75 per issue</td>
</tr>
<tr>
<td>1/2 Page Ad:</td>
<td>$150 per issue</td>
</tr>
<tr>
<td>Full Page Ad:</td>
<td>$200 per issue</td>
</tr>
</tbody>
</table>

Ads are due to the AETA office as set forth below. Online ads are full color and print ads are black and white.

**Payment terms:** Advertiser agrees to pay the contract amount in full prior to the start date. This fee is nonrefundable and will not be prorated should the Advertiser decide to discontinue the display of the advertisement at any time prior to the end of the contract period.

### Issue Due Date
- Winter 2009: January 30, 2009
- Spring 2009: April 27, 2009
- Summer 2009: July 27, 2009
- Fall 2009: October 26, 2009
- Winter 2010: December 28, 2009

The advertiser is responsible for providing all information and digital artwork to meet specifications. AETA reserves the right to determine the suitability of all ads submitted for distribution and to reject advertising that does not meet its editorial or digital criteria. Ads must be in PDF or high-quality JPEG, TIF, or EPS graphic files. Changes to ads may be made after each issue unit only. If you would like to advertise in the next issue, please contact AETA at aeta@assochq.org or call 217-398-2217.

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Our vice president, Sam Edwards, reported that the convention committee has been actively engaged with their CETA counterparts on several issues. A new format for the Thurs-

continued on p. 6
AETA Committees 2008-2009

President
Byron Williams, DVM
EmQuest ET Service
PO Box 504
Plymouth, WI 53073-0504
PHONE: (920) 892-6878
FAX: (920) 893-8083
E-mail: emquest@excel.net

Vice President
Sam Edwards, DVM
Harrogate Genetics International, Inc.
Box 1
Harrogate, TN 37752
PHONE: (423) 869-3152
FAX: (423) 869-5546
E-mail: samedwards62@hotmail.com

Secretary-Treasurer
Richard O. Whitaker, DVM
New England Genetic, LLC
10 Business Park Way
Turner, ME 04282
PHONE: (207) 225-2722
FAX: (207) 225-3883
E-mail: moodoc@megalink.net

Immediate Past President
David B. Duxbury, DVM
Midwest Embryo Transfer Service
1299 South Shore Drive
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PHONE: (715) 268-9900
FAX: (715) 268-2691
E-mail: dbduxbury@gmail.com

Directors
Glenn Engellant, DVM
Sun Valley Embryo Transfer
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PHONE: (785) 825-7600
FAX: (785) 825-6776
E-mail: svet@kshband.net
Stanley F. Huels, DVM
Huels Embryo Transfer Service
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FAX: (920) 324-7331
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E-mail: nextgenvet1@frontiernet.net
Sam Edwards, DVM, Chair
Harrogate Genetics International, Inc.
Box 1
Harrogate, TN 37752
PHONE: (423) 869-3152
FAX: (423) 869-5546
E-mail: samedwards62@hotmail.com

AUDIT COMMITTEE
To design and implement policies and procedures which insure the safekeeping of the organization assets.

Daniel Hornickel, DVM, Chair
Sunshine Genetics Inc
2100 Oregon Pike
Leola, PA 17540
PHONE: (717) 656-6934
FAX: (717) 656-7881
E-mail: samelina55@charter.net

Committee Member
Phil Reeser, DVM

CERTIFICATION COMMITTEE
To implement procedures and testing of the Certification Program, to oversee the promotion of the Certification Program, to continue it as a viable program for the embryo transfer industry as well as implement procedures and coordinate the on-site inspection of Certified ETB’s.

Stephen Malin, DVM, Chair
Malin Embryo Transfer
999B West Main Street
Waupun, WI 53963
PHONE: (920) 239-0106
FAX: (920) 324-7331
E-mail: smalin155@charter.net

Committee Members
Glenn Engellant, DVM
Larry Horstman, DVM
Brad R. Lindsey, Ph.D.
James K. West, DVM

CONVENTION/PROGRAM COMMITTEE
To develop the outline and framework of the current year’s convention including speakers, program ideas, format, and related subjects. These decisions must be made by the Committee, and the Association Office will proceed with the mechanics of promoting and coordinating the actual staging of the program, working jointly with the Committee.

Sam Edwards, DVM, Chair
Harrogate Genetics International, Inc.
Box 1
Harrogate, TN 37752
PHONE: (423) 869-3152
FAX: (423) 869-5546
E-mail: samedwards62@hotmail.com

Committee Members
Edwin Robertson, DVM

COOPERATOR COMMITTEE
To coordinate AETA’s activities as the FAS Cooperator for the ET industry and to develop the AETA/FAS Marketing Plan. To attend FAS (APHIS) activities as needed to develop the full potential of the Cooperatorship Program for the AETA members. To work closely with the Government Liaison Committee and APHIS in the development of import/export protocols and to further develop AETA’s role as the spokesman for the ET industry.

Scott Armbrust, DVM, Co-Chair
Paradocs Embryo Transfer Inc
121 Packerland Drive
Green Bay, WI 54303
PHONE: (920) 498-8262
FAX: (920) 498-8181
E-mail: pdotset@abglobal.net

Byron Williams, DVM, Co-Chair
EmQuest ET Service
PO Box 504
Plymouth, WI 53073-0504
PHONE: (920) 892-6878
FAX: (920) 893-8083
E-mail: emquest@excel.net

Committee Members
Richard Castleberry, DVM
Darrell DeGroft, DVM
Larry Kennel, DVM
Greg Lenz, DVM
Robert Leonard, DVM
Mike Phillips, USLGE
Jim West, DVM

EDUCATION COMMITTEE
The Education Committee is charged with exploring and developing new educational opportunities for the members of the AETA. The primary focus of the committee at this time is the area of web-based education.

Allen Rushmer, VMD, Chair
Next Generation ET Service
3162 Oregon Pike
Leola, PA 17540
PHONE: (717) 656-6921
FAX: (717) 656-6934
E-mail: nextgenvet1@frontiernet.net

Committee Members
Matt Jager, DVM
Jon Schmidt, DVM
Roger Thompson, DVM

EXHIBIT COMMITTEE
To enhance participation by ET support companies as exhibitors and/or sponsors of events and programs at AETA Annual Convention with emphasis on: increasing the number of exhibitors each year; providing incentives for exhibitors to “showcase” new technology and products through their participation in the convention program. Encouraging continued exhibitor support of coffee breaks, fellowship breakfasts, and evening functions as well as expanding participation of established breed associations.

David B. Duxbury, DVM, Chair
Midwest Embryo Transfer Service
1299 South Shore Drive
Amery, WI 54001
PHONE: (715) 268-9900
FAX: (715) 268-2691
E-mail: dbuxbury@gmail.com

Committee Members
John Hasler, Ph.D.
Dan Hornickel, DVM
Mark Steele, DVM
Brad Stroud, DVM

GOVERNMENT LIAISON COMMITTEE
To work with appropriate governmental agencies to provide information to encourage proper regulations, and to oppose those things which are not practical or feasible from a health and commercial point-of-view. This would involve both domestic and international shipment of embryos. To develop the American Embryo Transfer Association as the recognized spokesman for the ET industry and to keep the membership informed of the various activities through special bulletins from the Association headquarters.

Richard O. Whitaker, DVM, Chair
New England Genetic, LLC
10 Business Park Way
Turner, ME 04282
PHONE: (207) 225-2722
FAX: (207) 225-3883
E-mail: moodoc@megalink.net

Committee Members
David Duxbury, DVM

PROMOTIONS COMMITTEE
To develop an embryo transfer procedure manual, for use by AETA members and as a promotional tool for the AETA in other countries. This manual should be developed in cooperation with the IETS Handling Manual. Coordinate efforts with Industry Information Committee in producing a manual on regulatory

continued on p. 4

Spring 2009
agencies and contacts and direct AETA advertisements in breed journals and magazines.

Mark E. Steele, DVM, Chair
Steele Embryo Service
126 Fawn Trail
Graham, TX 76450
PHONE: (940) 549-8117
FAX: (940) 549-0070
msteele76@sbcglobal.net

Committee Members
Robert Zimmikas, DVM
Stanley F. Huels, DVM

MEMBERSHIP COMMITTEE
AETA welcomes veterinarians, scientists, technicians and students, as well as allied professionals directly involved in the embryo transfer industry. The Membership Committee seeks to increase and enhance the membership. The primary responsibilities of the Membership Committee are to review and recommend applications for membership, any alterations in membership policies and any adjustments to membership fees.

Charles R. Looney, Ph.D., Chair
Ovagenix, LP
4700 Elmo Weedon Road
Suite 103
College Station, TX 77845-3103
PHONE: (979) 731-1043
FAX: (979) 731-1086
E-mail: charles@ovagenix.com

Committee Members
Christy Carson Young, DVM
Stanley Huels, DVM
Chris Keim, DVM
Jemmy Webb, DVM
Donald Yanda, DVM

NEWSLETTER COMMITTEE
Provides scientific and technical abstracts and industry information articles on embryo transfer for the Association Newsletter. Keep the membership informed on specific activities of the various committees and the Association which would apply and be of direct interest to the membership. To encourage by specific request, the development of articles on the part of people who have authority of information and a successful record on continuing service for the benefit of others in the field. Promote embryo transfer for the AETA through various channels of publicity, (ie. newsletters, articles in trade journals and magazines) and to provide a generic information brochure regarding the embryo transfer industry.

Develop an advertising section in the AETA Newsletter and to establish a fee structure for the same. Consideration should include a free ad for companies that exhibit at the Convention or companies that sponsor programs or activities at the Convention in one issue of the Newsletter each year.

Brad R. Lindsey, Ph.D., Chair
Ovitra Biotechnology, Inc.
PO Box 158
Midway, TX 75852
PHONE: (979) 450-2599
E-mail: brad@ovitra.com

Committee Members
Charles R. Looney, Ph.D.
Kathy Creighton Smith, DVM
Larry Kennel, DVM

NOMINATIONS COMMITTEE
The Purpose of this committee shall have the responsibility to nominate potential Board members and to present a slate of officers to the new Board at their first Board meeting.

David B. Duxbury, DVM, Chair
Midwest Embryo Transfer Service
1299 South Shore Drive
Amery, WI 54001
PHONE: (715) 268-9900
FAX: (715) 268-2691
E-mail: dbduxbury@gmail.com

Committee Members
Thomas Rea, DVM

PROFESSIONAL REVIEW COMMITTEE
The Professional Review Committee shall have the responsibility to review, study and make recommendations regarding disputes among AETA members, complaints against AETA members, or questions in regard to the ethical conduct of members. The Committee shall review complaints and attempt to resolve the differences to the satisfaction of all parties. Confidentiality shall be maintained within the committee with only the committee members and the parties involved being knowledgeable to the complaint. It the committee efforts fail, upon mutual consent of both parties, the complaint shall be brought before the full AETA Board for their consideration. Confidentiality among the Board, Committee members, and involved parties shall be attempted with great effort. This Committee and/or Board shall not have legal or judicial powers. However, the Board shall have power to discipline its own members within the guidelines of the AETA Constitution and By-Laws, based upon recommendations of the Review Committee.

Byron Williams, DVM, Chair
EmQuest ET Service
PO Box 504
Plymouth, WI 53073-0504
PHONE: (920) 892-6878
FAX: (920) 893-8083
E-mail: emquest@excel.net

Committee Members
Sam Edwards, DVM
Richard O. Whitaker, DVM
David B. Duxbury, DVM

STATISTICAL INFORMATION COMMITTEE
Develop effective methodology for retrieving important information for the ET industry in the United States. Summarize the data and report it to the AETA membership.

Brad Stroud, DVM, Chair
Stroud Veterinary Embryo Service, Inc
6601 Granbury Highway
Weatherford, TX 76087
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Inma Robertson
Jeanne M. Reyher

E-mail: charles@ovagenix.com

Allen Rushmer, VMD
Next Generation ET Service
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FAX: (717) 656-6934
E-mail: nextgenetl@frontiernet.net

James R. Spears, Ph.D.
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FAX: (270) 586-5697
E-mail: spearsjames@bellsouth.net

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Universal Ultrasound Sonovet 600 (2001)
Complete with 5 MHZ rectal probe & Case – Good Condition - $6000 or best offer
Contact Christy Young, DVM – 931-596-3565
931-409-3724, stock-doc@hotmail.com

For Sale
Zeiss Sterio Microscope Model DK (Greenough-systems) Good working condition with hard carrying case.
Embryo Freezer: Freeze Control CL2200 System Recalibrated recently. Good condition.
Other miscellaneous transfer equipment

JD Norris, DVM
903-348-5828 or jdnorris@neto.com
Ask John . . .

Most ET practitioners have experience with a cow dying shortly before or even during embryo collection. Also, many of you undoubtedly have taken a call from a client who has a cow that is either in a terminal state of health or has already died. What are reasonable options in those situations?

If a bovine female has undergone superovulation treatment and is at least 5 days beyond estrus and insemination, embryos often can be successfully collected if a quick response is feasible. I believe that we had at least two dairy donors boarded at Em Tran Inc. die just prior to a scheduled embryo collection and another one that died in the collection chute as she was being prepared for flushing. In cases such as this, an acrobatic practitioner can actually flush the dead animal on the ground, or the uterus can be removed and flushed on the bench top, so to speak. The really important issue in these situations is time. My guess is that embryos inside a dead uterus will start degrading almost immediately, and viability will be largely compromised within an hour or so of death, whether the uterus is left in situ or removed from the body. We have had excellent pregnancy results on several occasions after transfer of embryos recovered within 30 minutes from dead cows. Obviously salvage of this type is not practical when a cow dies on farm and a practitioner cannot respond quickly.

The other situation involves inquiries about salvaging genetics via in vitro embryo production. Ovaries can be removed from cattle scheduled for slaughter or euthanasia or even shortly after unexpected death. The biggest problem in dealing with handling unscheduled immature oocytes is that they must be sent, under special conditions, to a lab equipped to handle them appropriately. Oocytes can be left in the ovarian follicles for many hours without a loss of viability; in fact, a period of 3 or 4 hours is probably desirable. Ovaries can be shipped at a temperature of 25 to 30°C by airline counter-to-counter service with resulting successful in vitro maturation, fertilization, and culture. How long the ovaries can safely remain in the body prior to removal is open for debate. If the cow was down for two weeks, with decreasing body functions, or if the farmer finds her dead in the pasture one morning, my advice is forget offering any heroic services.

I would be very interested in receiving comments and accounts from any of you who may have encountered these types of situations.

John

John F. Hasler, PhD
cell: 970-222-5302
Email: jfhasler05@msn.com

NOTICE TO READERS
Articles published in A Closer Look are not necessarily peer-reviewed or refereed. All statements, opinions, and conclusions contained in the articles in A Closer Look are those of the author(s) and are not necessarily those of the American Embryo Transfer Association unless specifically approved by the AETA Board of Directors.

Send Us Your Current Email Address!
The AETA receives several trade leads from various sources including USLGE. Because of the timely nature of these announcements, the AETA will immediately forward them to the membership via e-mail. Therefore, it is important that you provide the AETA with your most current e-mail address. To supply us with or update your current email address, send your name and email address to aeta@assochq.org.

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day night social has been developed. CETA has arranged for members to explore the city in small groups with each going to one of several different restaurants. Some of you may go with old friends and familiar faces, while some of you may join others and make some new friends. Either way, it sounds like fun. Please make plans to be in Montreal, September 16–19, 2009. (Don’t forget your passports.)

For the 2010 convention in Charlotte, there is some chance that NASCAR will move their race to our weekend. If so, we may need to reschedule one week earlier or later. An update is expected by later this summer. For the 2011 AETA/CETA Joint Convention, we are considering San Antonio and Denver. Proposals have been received, and site visits have been made. We have several good venues to choose from and should have a decision by this summer.

Our treasurer, Richard Whitaker, presented a detailed analysis of the 2008 income and expenses, a slightly revised 2009 budget, and a demonstration of the accounting system’s ability to create reports for specific activities. With the treasurer’s online access to the bank records and the audit committee’s annual review, we have transparency and oversight necessary to prevent future problems.

The audit committee met in Savoy with FASS staff and bank officials. They reported that bank records, FASS records, tax returns, and our corporate status are all in good order. Our association finances are in very good hands and, thankfully, our financial reserves are safely invested in CDs.

We are continuing to develop our website. The education committee and Allen Rushmer, chairman, have established a link to the tech talk from CETA http://ceta.ca/techtalk/). Our AETA newsletter is available online in both the html and PDF formats. Recently, the processing of membership dues, certification fees, and the directory information has been under review. FASS has proposed an online process that is more integrated, more accurate, and less expensive to maintain. Lots of work is going on and thanks to everyone for your ideas and your help.

Years ago, one of my more experienced dairy farmers advised me that his worst years in farming had always been followed by his best years in farming. As upside-down as the markets have been this past year, I sure hope his observation is right!

See you all soon. Byron

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**Transmission of bovine viral diarrhea virus (BVDV) via in vitro-fertilized embryos to recipients, but not to their offspring**

A. Bielanski *, J. Algire, A. Lalonde, S. Nadin-Davis  
*Canadian Food Inspection, Animal Diseases Research Institute, 3851 Fallowfield Road, Ottawa, ON, Canada K2H 8P9*

Received 2 June 2008; received in revised form 20 August 2008; accepted 25 August 2008

**Abstract**

The objective was to assess the potential of Day-7, IVP zona pellucida-intact blastocysts to transmit bovine viral diarrhea virus (BVDV) to embryo recipients. Embryos were exposed (1 h) to two non-cytopathic (NCP) biotypes, either NY-1 (type 1) or two concentrations of PA-131 (type 2), washed 10 times, and transferred into recipients (two embryos/recipient) free of BVDV and its antibody. Six (30.0%) of the 20 pregnancies were lost after 30 d following transfer of the embryos exposed to the type 1 strain; none of the recipients or their 18 full term offspring seroconverted. Conversely, following exposure to the type 2 strain, 16 (51.6%) of the 31 pregnancies were lost >30 d after embryo transfer. Furthermore, 18 (51.4%) of 35 recipients receiving embryos exposed to type 2 seroconverted; 11 of those were pregnant at 30 d, but only 2 went to full term and gave birth to noninfected (seronegative) calves. Virus isolation tests were performed on single, virus-exposed, washed embryos (not transferred); 3 of 12 (25%) and 17 of 61 (28%) exposed to type 1 and type 2, respectively, were positive for live BVDV. Embryos exposed to type 2 virus had from 0 to 34 viral copies. In conclusion, a large proportion of recipients that received embryos exposed to BVDV, especially those exposed to a high concentration of type 2 virus, became infected after ET, and their pregnancies failed. However, term pregnancies resulted in calves free of both virus and antibody. Therefore, additional disinfection procedures are recommended prior to transferring potentially infected IVP embryos.

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Keywords: BVDV; IVF; ET; Embryonic mortality; Cattle

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**2009 Board of Director Nominations**

The Nominating Committee is currently hard at work preparing for this year’s election at the Joint Annual Convention. If anyone has suggestions or nominations, please send them to Dr. David Duxbury via email at dbduxbury@gmail.com or contact him at 715.268.9900.

---

**Upcoming CE Opportunities**

**September 10–12, 2009**  
American Association of Bovine Practitioners (AABP)  
Omaha, Nebraska.  
For more information, please visit: www.aabp.org

**September 11–12, 2009**  
European Embryo Transfer Association (AETE)  
Poznan, Poland.  
For more information, please visit: www.aete.eu/meetings.php

**September 17–19, 2009**  
CETA/ACTE & AETA Joint Convention  
Hilton Montréal Bonaventure  
Montréal, Québec.  
For more information, please visit: www.ceta.ca/convention.htm

**September 24–27, 2009**  
World Equine Veterinary Association (WEVA)  
Guarujá-SP, Brazil.  
For more information, please visit: www.weva2009.com

**January 9–13, 2010**  
International Embryo Transfer Society (IETS)  
Sheraton Hotels & Resorts  
Cordoba, Argentina.  
For more information, please visit: www.iets.org
Japan Certificate Update

AETA Headquarters has a new office. As a result, the Japan Certificate was modified to reflect all current information. For your convenience, the new certificate is also available in the following formats; PDF, Word 97-2003 and 2007. The revised form can also be downloaded via PDF from the AETA website by visiting the following link, http://www.aeta.org/japan.pdf To ensure proper and timely processing, please update your files immediately.

If you have any questions or need another copy of the form electronically, please do not hesitate to contact me directly at kathyr@assochq.org or by calling 217-239-3325.

AABP Preconference Wet Lab for Veterinarians
September 7-9, 2009 ~ Omaha, Nebraska

Enrollment is limited to the first 25. Additional information can be found by visiting http://www.aabp.org/ under their Monday preconference seminars.
For more information contact Dr. Edwin Robertson at (865) 207-5814.
The economic effects of an estrus synchronization protocol using prostaglandin in beef heifers

D.E. Holm *, P.N. Thompson, P.C. Irons

Department of Production Animal Studies, Faculty of Veterinary Science, University of Pretoria, Private Bag X04, Onderstepoort 0110, South Africa

Received 27 December 2007; received in revised form 23 April 2008; accepted 18 June 2008

Abstract

We estimated the effect of estrus synchronization on reproduction, production and economic outcomes in 272 beef heifers randomly allocated to a synchronized Test group or an unsynchronized Control group. The Test group received AI upon estrus detection for 6 days followed by PGF2 treatment of heifers that had not shown estrus by day 6 (PGF/6). In both groups AI was continued for 50 days, followed by a 42-day bull breeding period. Heifers were followed through their second breeding season and until they had weaned their first calves. Synchronization resulted in a reduction in median days to first insemination (8 vs. 11 in the Test and Control groups, respectively, P < 0.01) and median days to calving of calves born to AI (14 vs. 20, P = 0.04). There was no significant difference in pregnancy rate to the AI period (60.0% vs. 51.8%, P = 0.18), final pregnancy rate (82.2% vs. 83.2%, P = 0.87) or pregnancy rate to the subsequent breeding season (96.0% vs. 95.0%, P = 1.00). Although mean calf weaning mass was not significantly different (207.0 kg vs. 201.4 kg, P = 0.32), the total mass of calves weaned in this study was 14,843 kg vs. 13,060 kg and the benefit: cost ratio for synchronization was 2.8. It was therefore concluded that a PGF/6 protocol may affect the total mass of calves weaned by changing days to calving, weaning rate, the ratio of male:female calves born and/or the birth mass of calves.

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Keywords: Beef heifers; Cattle; Cost benefit; Estrus synchronization; Prostaglandin

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1-559-791-1000
**Membership Directory Addendum**

At the time the 2009 AETA Member Directory went to the printer in late winter, there were a number of member’s that were omitted. To follow is an addendum that includes the member’s that were absent. Please accept our apologies for any inconvenience or frustration this may have caused.

### Certified Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
<th>City</th>
<th>St</th>
<th>Zip</th>
<th>Work</th>
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<th>Email</th>
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<tbody>
<tr>
<td>Todd Van Dyke, VMD</td>
<td>Van Dyke’s Embryo Transfer, PC</td>
<td>4994 Sandy Lake Greenville Rd</td>
<td>Sandy Lake</td>
<td>PA</td>
<td>16145-2042</td>
<td>(724) 376-7331</td>
<td>(724) 376-2929</td>
<td><a href="mailto:shcarnes@yahoo.com">shcarnes@yahoo.com</a></td>
</tr>
<tr>
<td>Stan H. Carnes, DVM</td>
<td>Akers Farm, LLC</td>
<td>895 Newlands Ln</td>
<td>Stanford</td>
<td>KY</td>
<td>40484-9284</td>
<td>(859) 326-1469</td>
<td></td>
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</tr>
<tr>
<td>Thomas D. Kuhn, DVM</td>
<td>Mardale Embryo Transfer</td>
<td>40 E Franklin St</td>
<td>Shelbyville</td>
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<td>46176-1339</td>
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<td><a href="mailto:mardale2@comcast.net">mardale2@comcast.net</a></td>
</tr>
<tr>
<td>Chris Kolste, DVM</td>
<td>Tuition Genetics</td>
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<td>Belgrade</td>
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<td>(406) 585-3586</td>
<td>(406) 585-3500</td>
<td><a href="mailto:kolste.tremonton@gmail.com">kolste.tremonton@gmail.com</a></td>
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<tr>
<td>Colleen A. Lewis, DVM</td>
<td>Sho-Me Embryos</td>
<td>13147 Lawrence Rd 2103</td>
<td>Mount Vernon</td>
<td>MO</td>
<td>65712</td>
<td>(417) 818-2621</td>
<td>(417) 466-2210</td>
<td><a href="mailto:gregor.lenzl@hotmail.com">gregor.lenzl@hotmail.com</a></td>
</tr>
<tr>
<td>Greg Lenz, DVM</td>
<td>Reproduction Enterprises, Inc</td>
<td>908 N Prairie Rd</td>
<td>Stillwater</td>
<td>OK</td>
<td>74075-8710</td>
<td>(405) 744-8583</td>
<td>(405) 612-2068</td>
<td><a href="mailto:gregor.morgan@okstate.edu">gregor.morgan@okstate.edu</a></td>
</tr>
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<td>908 N Prairie Rd</td>
<td>Stillwater</td>
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<td>74075-8710</td>
<td>(405) 744-8583</td>
<td>(405) 612-2068</td>
<td><a href="mailto:gregor.morgan@okstate.edu">gregor.morgan@okstate.edu</a></td>
</tr>
<tr>
<td>Brad R. Lindsey, PhD</td>
<td>Ovitra Biotechnology, Inc</td>
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<td>TX</td>
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</tr>
<tr>
<td>Charles R. Looney, PhD</td>
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<td>4700 Elmo Weedon Rd Ste 103</td>
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<td>77845-3103</td>
<td>(979) 731-1043</td>
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<td><a href="mailto:charles@ovagenix.com">charles@ovagenix.com</a></td>
</tr>
<tr>
<td>Larry F. Lanzon, DVM</td>
<td>Lander Veterinary Clinic, Inc.</td>
<td>PO Box 3729</td>
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<td>95381-3729</td>
<td>(209) 678-3335</td>
<td>(209) 634-0643</td>
<td><a href="mailto:landervct@aim.com">landervct@aim.com</a></td>
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### Regular Members

<table>
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<tr>
<th>Name</th>
<th>Company</th>
<th>Address</th>
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<th>Zip</th>
<th>Work</th>
<th>Fax</th>
<th>Email</th>
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<tr>
<td>Caleb Norton</td>
<td>Clover Hill Farms</td>
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<td>(570) 946-4152</td>
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</tr>
</tbody>
</table>
What affects fertility of sexed bull semen more, low sperm dosage or the sorting process?


*CRV, Research & Development, P.O. Box 454, 6800 AL Arnhem, The Netherlands
†Sexing Technologies, Navasota, TX 77868, USA
‡ST Benelux, P.O. Box 540, 7400 AH Deventer, The Netherlands

Abstract

Until now it has been unclear to what extent the reduced fertility with sexed semen in the dairy industry is caused by too few sperm per AI dose, or by the effect of flow cytometric sorting, which is the established procedure for sexing semen. Therefore, we evaluated the effects of low sperm numbers per dose with and without sorting on non-return rates after 56 days (NRR56); in addition, we evaluated the effects of bulls, in order to further optimize use of sexed semen.

Based on results of using sexed semen from seven Holstein bulls, an overall numerical decline of 13.6% in NRR56 was observed (P < 0.05). About two-thirds of this decline (8.6%) was due to the low dose (P < 0.05), and a third (5.0%) due to the process of sorting (P < 0.05). The effect of low dosage and sorting differed among bulls. We observed a sex ratio of 91.6% females for sexed semen from the first 131 calves born.

Currently the best way to increase fertility of sexed semen is by closely monitoring fertility so that the highest fertility bulls are used, and by improving farm animal management. However, to make substantial progress, more in depth studies are needed on the sexing technology, especially on aspects such as sorting procedures and sperm dosage.

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Keywords: Reproduction; Fertility; Spermatozoa; Sex; Bovine
MARK YOUR CALENDARS!

September 17-19, 2009

Hilton Montréal Bonaventure
Montréal, Québec

The planning for the 2009 CETA/ACTE & AETA Joint Convention in Montréal, Québec, is well underway. Thursday seminars include the basic ET 101 session for technicians, students, and those just getting started in embryo transfer. Also offered on Thursday is the ET 201 seminar, which will cover more advanced techniques for the more experienced embryo transfer practitioner. Friday and Saturday sessions will include presentations on fertility, semen, endocrinology, and genomics. There will also be a breakout session about small ruminants and swine, and the favorite ‘Practitioners forum’ will also be offered. The tentative program outline is included on the next page.

The golf tournament is scheduled for Thursday, September 17 at Golf La Prairie. Companion tours are also being planned, which will include a city tour and tour of the Biodome and Botanical Gardens.

The convention hotel is located in downtown Montréal. The Thursday evening social has been changed in that it will be at the delegates’/participants’ expense. To experience the charm of Montréal, the evening will be a ‘Dinner in Town’ in Old Montréal. Participants will be transported to Old Montréal, where small groups will dine at various restaurants in Old Montréal; reservations will be made to accommodate everyone. Please plan to sign up for this great evening.

Montréal is one of Canada’s most unique and lively cities, offering a perfect blend of the old and new. Culturally, there are few cities that beat it. There are numerous museums located in and around the city, including notables such as the McCord Museum of Canadian History. Other historically significant sites around Montréal include the Notre-Dame Basilica, one of the largest cathedrals in North America. Shoppers will swoon at the sight of Montréal’s downtown core, which has over 3,000 shops and services.

There is a lot to see and do in Montréal, so we invite you and your companions to visit and learn!

We look forward to seeing you there!

Hotel Information
Hilton Montréal Bonaventure
900, rue de La Gauchetière
Montréal, Québec, Canada H5A 1E4
For reservations, please call Tel: 514-878-2332
Hotel Reservations can be made online via the CETA/ACTE web site at http://www.ceta.ca/convention.htm

Please refer to the “CETA/AETA Joint Convention” when making your reservations.
Standard (single/double): $189 CAD/night
Self-parking per day is $17 CAD • Valet parking per day is $25 CAD
Convention Rate is available until August 16, 2009
# 2009 CETA/ACTE & AETA Joint Convention

## Tentative Program Outline

### Wednesday, September 16

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 11:00 AM</td>
<td>MEETING: CETA/ACTE Certification Committee Meeting</td>
</tr>
<tr>
<td>9:00 AM – 5:00 PM</td>
<td>MEETING: AETA Board of Directors Meeting</td>
</tr>
<tr>
<td>11:00 AM – 6:00 PM</td>
<td>MEETING: CETA/ACTE Board of Directors Meeting</td>
</tr>
<tr>
<td>1:00 PM – 5:00 PM</td>
<td>EXAM: CETA/ACTE Certification Exam <em>(for initial certification)</em></td>
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### Thursday, September 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 AM – 2:00 PM</td>
<td>SOCIAL: Golf Tournament</td>
</tr>
<tr>
<td>9:00 AM – 12:00 PM</td>
<td>EXAM: AETA Certification Exam <em>(for initial certification)</em></td>
</tr>
<tr>
<td>12:00 PM – 4:00 PM</td>
<td>Exhibit Set-up</td>
</tr>
<tr>
<td>12:00 PM – 5:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>2:30 PM – 5:00 PM</td>
<td>SEMINAR: ET 101: Basics of Embryo Transfer</td>
</tr>
<tr>
<td></td>
<td>Presented by Dr. John Hasler, Laporte, Calorado</td>
</tr>
<tr>
<td>2:30 PM – 5:00 PM</td>
<td>SEMINAR: ET 201: Advanced Techniques</td>
</tr>
<tr>
<td></td>
<td>Presented by Dr Brad Stroud, Stroud Veterinary Embryo Services, Weatherford, Texas</td>
</tr>
<tr>
<td></td>
<td>Topics: Ways to improve ova/embryo yield, What AETA &amp; CETA/ACTE statistics are telling us, Different ways of recovering embryos (2–3 practitioners experiences), Ultrasound: a central tool in embryo transfer</td>
</tr>
<tr>
<td>5:30 PM</td>
<td>SOCIAL: Cocktail hour in Exhibit Room followed with ‘Dinner in Town’</td>
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</table>

### Friday, September 18

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 AM – 5:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 AM – 7:00 PM</td>
<td>Exhibits Open</td>
</tr>
<tr>
<td>7:00 AM – 8:00 AM</td>
<td>Continental Breakfast in Exhibit Room</td>
</tr>
<tr>
<td>9:00 AM – 12:00 PM</td>
<td>Companion Tour</td>
</tr>
<tr>
<td>8:15 AM – 9:30 AM</td>
<td>SESSION: Fertility Session—Embryonic losses in cattle</td>
</tr>
<tr>
<td></td>
<td>Presented by: Dr. Patrice Humblot, U.N.C.E.I.A., France</td>
</tr>
<tr>
<td>9:30 AM – 10:30 AM</td>
<td>SESSION: Fertility Session—The Diagnosis and Treatment of Postpartum Endometritis in Dairy Cattle.</td>
</tr>
<tr>
<td></td>
<td>Presented by Dr. Colin Palmer, Western College of Veterinary Medicine, Saskatoon, Saskatchewan</td>
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<tr>
<td>10:30 AM – 11:00 AM</td>
<td>Break in Exhibit Room</td>
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<tr>
<td>11:00 AM – 12:30 PM</td>
<td>MEETING: AETA Annual Business Meeting</td>
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<tr>
<td>11:00 AM – 12:30 PM</td>
<td>MEETING: CETA/ACTE Annual General Meeting</td>
</tr>
<tr>
<td>12:30 PM – 1:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:30 PM – 1:30 PM</td>
<td>MEETING: CETA/ACTE New Board of Directors Meeting</td>
</tr>
<tr>
<td>1:30 PM – 2:30 PM</td>
<td>SESSION: Semen Session—Technologies Applied to Evaluate Fertility of Bull Semen: fresh, Frozen, and Sexed</td>
</tr>
<tr>
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<td>Presented by Dr. Mathieu Boilard, l’ Alliance Boviteq, St-Hyacinthe, Québec</td>
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<tr>
<td>2:30 PM – 3:00 PM</td>
<td>SESSION: Semen Session—Field Results Using Sex semen: Italian Experience</td>
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<td>Presented by Dr. Pierluigi Guarneri, Italy</td>
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Friday, September 18 continued…

3:00 PM – 3:30 PM  Break in Exhibit Room
3:30 PM – 4:30 PM  SESSION: **Endocrinology Session**—Superovulation Programs

Presented by Dr. Gabriel Bó, IRAC, Argentina

4:30 PM – 5:00 PM  SESSION: **Endocrinology Session**—The Role of Recombinant Gonadotropins in Assisted Reproduction, Embryo Transfer
Presented by Dr. Dragan Rogan, Bioniche Life Sciences Ltd., Belleville, Ontario

4:30 PM – 5:30 PM  MEETING: AETA New Board of Directors Meeting
6:00 PM – 7:00 PM  SOCIAL: **Cocktail hour in Exhibit Room**
7:00 PM – 9:30 PM  SOCIAL: Banquet with entertainment

Saturday, September 19

6:30 AM – 7:30 AM  AETA Past Presidents / Board of Directors’ Breakfast
7:00 AM – 2:00 PM  Exhibits Open
7:00 AM – 8:00 AM  Continental Breakfast in Exhibit Room
7:00 AM – 4:00 PM  Registration
9:00 AM – 1:00 PM  Companion Tour
8:00 AM – 10:30 AM  SESSION: **Small Ruminants & Swine**

Small Ruminants Embryo Transfer: Techniques, donor, and recipient management

*Presented by Dr. Hernan Baldassarre, Pharmathene Canada Inc., St-Telesphore, Québec*

Porcine Embryo Transfer
Presented by Dr. Claire Plante, Plante Veterinary Services, Guelph, Ontario

8:00 AM – 10:30 AM  SESSION: **Cattle**

Practitioner forum

*Moderator: Dr. Reuben Mapletoft, Western College of Veterinary Medicine, Saskatoon, Saskatchewan*

10:30 AM – 11:00 AM  Break in Exhibit Room
11:00 AM – 12:30 PM  AETA SESSIONS: USDA/APHIS Updates & Certification Exam (Session)

11:00 AM – 12:30 PM  CETA/ACTE SESSIONS: Information Session

Embryo Export: getting all official documents ready
Presented by Melanie Atkinson, Clinique Vétérinaire St-Louis/Embryobec, St-Louis de Gonzague, QC
Assembly Port: point of view of a Canadian export company
Presented by Susan Dunk, Semex Alliance, Guelph, Ontario

12:30 PM – 2:00 PM  Lunch & Time in Exhibit Room
12:30 PM – 1:30 PM  MEETING: Joint Convention Committee Meeting (CETA/ACTE & AETA)
2:00 PM – 2:45 PM  SESSION: **Genomic Session**

Genetic Improvement of Dairy Cow Reproductive Performance
Presented by Dr. J. Chesnais, Semex Alliance, Ottawa, Ontario
SESSION: Genomic Session
Genomic potential from bovine embryo biopsies
Presented by Dr. Christian Vigneault, l’Alliance Boviteq Inc., St-Hyacinthe, Québec
Experience with embryo genotyping from in vivo embryo
Presented by Dr. Patrice Humblot, U.N.C.E.I.A., France

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The World’s First Non-Refrigerated, Non-Animal Origin Embryo Transfer product line!

SAVE ON FREIGHT

Sample comparisons based on shipment of 7 boxes of 8mL from Bioniche-Pullman, WA via UPS.

Freight cost will vary depending on delivery location.

<table>
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<th>SYNGRO Ground</th>
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<td>Madison, WI</td>
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</tbody>
</table>

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