Our winter here in Pennsylvania turned directly into summer, completely bypassing spring. It seems like just yesterday, we were concerned about traveling on ice and snow-covered roads. Now some of our recipients are too hot to serve as embryo hosts. Our workload has increased dramatically, which I believe we can attribute to better milk and beef prices.

Dr. Tom Rea has been busy scheduling our 2004 fall meeting in Tampa. The Canadians will be joining us again for that event. I hope you are all planning to attend. (See program in this issue.) We had hoped to have our 2005 meeting in Baltimore, but because of the cost of having the convention there, we will probably be going to Minneapolis. The room rates in Minneapolis are $115, instead of the $159 per night in Baltimore. Other costs in Baltimore are also considerably higher.

By now each of you should have received your ET survey. Please, if you have not already done so, complete it and send it in to the AETA office as soon as possible. We need a good return rate on these surveys so that we can provide accurate information to the international ET community. Also, don’t forget that you are required to return this survey if you want to maintain a certified ET business.

Dr. Whitaker, chairman of the Government Liaison Committee, has been working with the USDA to reopen embryo markets that have been closed due to the BSE case. Please read his report in this issue and visit our Web site (www.aeta.org) to see the new Japanese health chart.

In March, I traveled with Dr. Scott Armbrust, Cooperator Committee chairman, and Darrel Degroff, committee member, to China as representatives of AETA to encourage the importation of our embryos to that country. We transferred approximately 60 embryos (40 Holstein and 20 Angus) at three different locations. These embryos were purchased through AETA members who were certified for embryo export to China with USLGE (U.S. Livestock & Genetics Export) funds procured through FAS (Foreign Agriculture Service). We also saw calves that resulted from transfers done by an AETA team in the fall of 2002. (See Cooperator Committee report and pictures.)

There were two things I was very impressed with in China. First, contrary to what I was told by several of our members, the food was great. Even though I wasn’t very proficient with chopsticks, I still managed to get plenty to eat. The snacks I took along under advisement were just extra baggage. I gave them away to a group of high school students who visited with us one evening to practice their English. Second, the amount of work done by hand in China is nothing short of amazing. I did not see a tractor in a field during our entire trip, only people with hand tools. Eighty percent of Chinese people are farmers who live on an average of about $200 per year.

Most of my time in China was spent cleaning up the B.S. from Scott and Darrel. As evidence, see the picture included.
TO THE READERS

Articles published in *A Closer Look* are not 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.

**Future Meeting Dates**

<table>
<thead>
<tr>
<th><strong>AETA</strong></th>
<th><strong>IETS</strong></th>
<th><strong>AABP</strong></th>
<th><strong>SFT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>2005</td>
<td>2004</td>
<td>2004</td>
</tr>
<tr>
<td>October 13 – 15</td>
<td>September 8 - 10</td>
<td>September 23 – 25</td>
<td>August 4 – 8</td>
</tr>
<tr>
<td>Tampa, FL</td>
<td>Minneapolis, MN</td>
<td>Ft. Worth, TX</td>
<td>Lexington, KY</td>
</tr>
<tr>
<td>2005</td>
<td>2006</td>
<td>2005</td>
<td>2005</td>
</tr>
<tr>
<td>September 8 - 10</td>
<td>January 9 – 11</td>
<td>September 24 – 26</td>
<td>September 24 – 26</td>
</tr>
<tr>
<td>Orlando, FL</td>
<td>Copenhagen, Denmark</td>
<td>Salt Lake City, UT</td>
<td>Salt Lake City, UT</td>
</tr>
<tr>
<td>2006</td>
<td>2007</td>
<td>2006</td>
<td>2007</td>
</tr>
<tr>
<td>January 8 – 10</td>
<td>January 9 – 11</td>
<td>September 21 – 21</td>
<td>September 20 – 22</td>
</tr>
<tr>
<td>Orlando, FL</td>
<td>Copenhagen, Denmark</td>
<td>St. Paul, MN</td>
<td>Vancouver, BC, Canada</td>
</tr>
<tr>
<td>2007</td>
<td>2008</td>
<td>2007</td>
<td>2008</td>
</tr>
<tr>
<td>September 20 – 22</td>
<td>September 21 – 21</td>
<td>September 21 – 21</td>
<td>September 25 – 27</td>
</tr>
<tr>
<td>Vancouver, BC, Canada</td>
<td>Vancouver, BC, Canada</td>
<td>St. Paul, MN</td>
<td>Charlotte, NC</td>
</tr>
<tr>
<td>Charlotte, NC</td>
<td>Vancouver, BC, Canada</td>
<td>Ft. Worth, TX</td>
<td>Vancouver, BC, Canada</td>
</tr>
<tr>
<td>September 21 – 21</td>
<td>September 21 – 21</td>
<td>September 20 – 22</td>
<td>September 20 – 22</td>
</tr>
<tr>
<td>St. Paul, MN</td>
<td>Vancouver, BC, Canada</td>
<td>Ft. Worth, TX</td>
<td>Vancouver, BC, Canada</td>
</tr>
</tbody>
</table>

**AETA can now accept ads electronically or camera-ready for publication.**

---

**AETA Business Office**

1111 N. Dunlap Ave.
Savoy, IL  61874

Phone: 217-398-2217
FAX: 217-398-4119
aeta@assochq.org
www.aeta.org
General Information: Free communication will be presented as posters, abstracts of which will be published in the January 2005 issue of Reproduction, Fertility and Development. The first author or a representative is required to present an expanded report of the data in poster format at the Annual Conference. Students may enter their abstract in a competition sponsored by the IETS Foundation and are also eligible to compete for travel awards. Details on eligibility, judging procedures, and prizes are available on the IETS website.

Abstract Requirements: Abstracts must be in English and prepared strictly according to the instructions for submission. The language should be concise and avoid jargon. Abbreviations must be defined and should be used sparingly. Abstracts should consist of unpublished, original data that contains objectives, experimental methods (including statistical methods), results, and conclusions. The Program Chairman and two other referees will subject each abstract to rigorous scientific review. Rejection by the Program Chairman is final. If withdrawal of an abstract becomes necessary, notify the Program Chairman by September 15, 2004.

Submission Restrictions: Due to space restrictions, submissions are limited. An individual may not be first author of more than one abstract. Space limitations allow a maximum of 3250 keystrokes (including characters, spaces, and punctuation). Begin count at the title and end count with the last word. Abstracts that are too long will be rejected automatically by the system. Coding for special characters is not included in the total keystroke count. If you must use boldface, italic, or sub-/superscript type anywhere in the abstract, consult the Text Attributes Coding information below. This special coding is not counted in the 3250 allowed keystrokes. Special characters such as Greek letters and math symbols are available on the electronic submission form itself.

If your abstract includes a table the keystroke limit will be 2750 for the abstract and 500 for the table. The electronic submission form does allow submission of tables. The printed abstract width allows for 70 keystrokes per line, including spaces; keep this in mind when formatting the table. Tables that are too wide are not printable. You must also include coding for text attributes in the table. This includes the italicization, superscripting, and subscripting of numbers and letters in the table and the footnotes.

Submission Deadlines: Abstracts must be submitted via the website or by a hard copy only. No FAX copies will be accepted. The firm deadline for receipt of the abstract via the website is August 3, 2004 by Midnight CST. Abstracts received after this date will be rejected. The Program Chairman strongly encourages all authors to use the electronic submission format in order to reduce costs associated with paper submission. Authors without Internet access can submit a paper copy of their abstract. The abstract must follow the given format and should be mailed to be received no later than July 25, 2004. Abstracts received after this date will be rejected without exception.

Author Agreements: By submitting an abstract, the author concedes (1) that the information in the submitted manuscript has never been published and is the work of the named authors, who all agree to be listed as co-authors, and (2) that the first author or a representative will present an expanded report of the data in poster form at the annual conference and that the work reported has not been published elsewhere. Failure to present a poster after your abstract has been published in the conference proceedings can result in rejection of abstracts submitted by your laboratory in future years. Authors need to be aware of patent considerations and copyright considerations before submitting an abstract for publication.

All questions and correspondence should be directed to:
IETS Headquarters
1111 North Dunlap Avenue; Savoy, IL 61874 USA
Phone: (217) 356-3182, FAX: (217) 398-4119
E-mail: iets@assochq.org
PREGNANCY RATES RESULTING FROM TRANSFER OF FRESH AND FROZEN HOLSTEIN AND JERSEY EMBRYOS

A. R. Steel, J. F. Hasler

AEvergreen Veterinary Reproductive Services PC, Tillamook, OR, USA; BAB Technology, Inc., Pullman, WA, USA

Although it has not been documented in published studies, embryo transfer (ET) practitioners have suggested that embryos from Jersey (JE) cattle do not survive freezing as well as embryos from other dairy breeds such as Holsteins (HO). The present study represents a retrospective analysis of pregnancy rates achieved following transfer of fresh and frozen embryos from Jersey and Holstein donors. In addition, a retrospective comparison was made of two different embryo-freezing protocols for each breed of cattle. Embryos were collected nonsurgically 7 to 7.5 days post-estrus from superovulated donors on 57 Holstein and 27 Jersey dairy farms over a 15-year period. Fresh and frozen-thawed embryos were transferred nonsurgically into cows and heifers following either natural or prostaglandin-induced estrus. Embryos were frozen either in 10% glycerol (Gly) or 1.5 M ethylene glycol (EG) in 0.25 mL straws. Following equilibration, straws were seeded at -6 to -7×C and temperature was maintained for 10 min and then decreased at 0.6×C per min. Straws were plunged into liquid nitrogen at -32 to -35×C. At thawing, straws were held in the air for 7 s and then submerged in 29×C water for 15 s. Embryos frozen in EG were transferred immediately following thawing. Embryos frozen in Gly were rehydrated in a standard 3-step Gly-sucrose system prior to being transferred. Pregnancy diagnosis was performed at Days 40 to 90 of gestation. As seen in the Table, pregnancy rates were similar for fresh embryos from both HO and JE cattle. Also, there were no differences in pregnancy rates between recipients that received embryos frozen in Gly or EG within donors of either breed. However, JE embryos frozen in either Gly or EG resulted in lower pregnancy rates than did HO embryos frozen in Gly or EG. Embryo stage at freezing was tracked for EG but not Gly embryos. There were no differences in pregnancy rates among morulae, early blastocysts or mid-blastocysts for either HO or JE embryos frozen in EG. The differences in embryo survival may be due to different lipid composition of embryos of the two breeds. Perhaps a more efficacious freezing protocol can be developed for cryopreservation of JE embryos. In conclusion, pregnancy rates with cryopreserved HO embryos were higher than with JE embryos.

<table>
<thead>
<tr>
<th>Embryos</th>
<th>No. Transfers</th>
<th>% Pregnant</th>
<th>No. Transfers</th>
<th>% Pregnant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh</td>
<td>3376</td>
<td>65.3</td>
<td>1161</td>
<td>62.8</td>
</tr>
<tr>
<td>Frozen-Gly</td>
<td>836</td>
<td>57.7a</td>
<td>593</td>
<td>46.2b</td>
</tr>
<tr>
<td>Frozen-EG</td>
<td>1111</td>
<td>53.8a</td>
<td>193</td>
<td>39.9b</td>
</tr>
</tbody>
</table>

abValues in rows without common superscripts differ significantly. P<0.001, chi-square analysis.

The following abstracts are reproduced with permission from the Journal of Reproduction, Fertility and Development, Volume 16, Number 2. Copyright IETS 2004. The Journal can be seen online at: www.publish.csiro.au/journals/rfd.
The Cooperator Committee completed the 2003 China Quality Samples program after a delay due to the SARS epidemic last year. Drs. Kennel, DeGroff, and Armbrust traveled to China for 10 days in mid-March promoting US genetics and embryo transfer. Dr. Kennel, as president of the AETA, was the leader of the delegation at all official meetings and dinners. Larry did a great job as the AETA ambassador, making appropriate toasts and being very politically correct. At present, the Chinese are very sensitive to resuming the embryo trade with the US due to the BSE problem. Politics continue to have more weight than science. Two seminars were presented, 60 embryos were implanted, and numerous calves were observed from the 2002 project. The Chinese were amazed at the growth and vigor of the US embryo calves and the comments were very positive.

China’s dairy industry is exploding, and the demand for milk is tremendous with the national government’s institution of the “Glass of milk for every child, every day” program. This trip confirmed that there is a demand for improved genetics, but there is more emphasis on price than quality in the Chinese market. The Chinese market, if and when it re-opens to US embryos, will be very price sensitive and the market will be for low-cost generic dairy embryos. There is currently no embryo protocol approved after the BSE case, even though there has been an announcement that the embryo and semen markets are open again.

Plans are currently underway to invite 4 to 6 Chinese ET technicians to the US for training and exposure to the US ET industry. Funding has been approved for the 2004 project. If you are interested in hosting or training one of our Chinese counterparts, contact Larry Kennel or Scott Armbrust. The Chinese embryo market will take time and a great deal of cooperation to reach its great potential.

President Kennel surgically preparing real Peking duck in Peking (Beijing)

A great team of assistants in Shandong province helped achieve 19 pregnancies from 30 embryos

AETA team promoting US genetics to top government agriculture officials in Anhui province

Seven heifer calves from the 2002 project at Lijuan Dairy. Eight bulls already sold to AI from 23 embryos—Success!!
Darrel and Larry celebrating the ET project with Madame Wang (CEO of the bull stud) in Shandong.

Darrel was happy to see the Colorado restraint system used in China.
SPONSORSHIP / EXHIBIT APPLICATION

Please complete this form and return to:
American Embryo Transfer Association
1111 North Dunlap, Savoy, IL  61874 (217) 398-2217 phone  (217) 398-4119 fax

Company Name:
___________________________________________________________________________

Name of Contact Person:
___________________________________________________________________________

Address & City:
___________________________________________________________________________

Province/State: __________________________ Postal Code/Zip Code __________

Telephone: __________________________ Fax: __________________________

Email Address:
___________________________________________________________________________

Name of Representative(s) Attending:
___________________________________________________________________________

___________________________________________________________________________

INFORMATION FOR ADVERTISING PURPOSES:
Address & City:
___________________________________________________________________________

Province/State: __________________________ Postal Code/Zip Code: __________

Telephone: __________________________ Fax: __________________________

Email Address:
___________________________________________________________________________

Web Site Address:
___________________________________________________________________________

REQUISITION & CONTRACT FOR EXHIBIT SPACE:
For the sum of $ ____________USD you are hereby requested to reserve exhibit space for us at the AETA and CETA/ACTE Joint Convention at the Marriott Tampa Westshore, October 14-16, 2004. We enclose herewith our check payable to the American Embryo Transfer Association, in the sum of $ ____________ USD. All rules and regulations governing the exhibit have been read by us and are hereby accepted and are a part of the contract, and we agree to comply with them. It is agreed that in the event the AETA and CETA/ACTE shall fail to open the exhibition or furnish space to us, it will refund all sums paid hereunder, which shall be in full liquidation of all loss or damage suffered by us.

CANCELLATION POLICY: All confirmed/contracted exhibit space cancelled by September 28, 2004 will be subject to a $100.00 USD service charge per space. All cancellations after September 28, 2004, will forfeit the entire booth fee.

DATE: ________________, 2004

COMPANY/FIRM: _________________________________________________________________________

SIGNED BY: __________________________  TITLE: __________________________

7
SPONSORSHIP & EXHIBIT FEES

All fees are payable by check or credit card in American (USD) funds
Please make your check payable to: American Embryo Transfer Association or complete the credit card information below.

Please complete and return this form with payment by June 15, 2004 to:
American Embryo Transfer Association
1111 North Dunlap, Savoy, IL 61874

**All choices of sponsorship will be dealt with on a first come first serve basis**

EXHIBIT FEE

- Table Top Exhibit: $600.00 USD

SPONSORSHIP CHOICES

- Sponsor Continental Breakfast with a donation of: $2500.00 USD
  - Friday, Oct. 15
  - Saturday, Oct. 16

- Sponsor Coffee Break with a donation of: $1000.00 USD
  - Friday, Oct. 15 (morning)
  - Friday, Oct. 15 (afternoon)
  - Saturday, Oct. 16 (morning)
  - Saturday, Oct. 16 (afternoon)

- Sponsor Lunch with a donation of: $3000.00 USD
  - Friday, Oct. 15
  - Saturday, Oct. 16

- Sponsor Session with a donation of: $500.00 USD

SESSION CHOICES (Please refer to attached list of speakers & sessions)

1. 
2. 
3. 

- General Donation of: $_______________

TOTAL SPONSORSHIP/EXHIBIT

PAYMENT MUST BE IN US DOLLARS WITH A CHECK, MONEY ORDER, OR CREDIT CARD

Circle: Visa MasterCard American Express

CC # ___________________________ Exp. Date ________ Total $ __________

Signature ___________________________________________________________
# Tentative Convention Program

## Wednesday, October 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM - 10:30 AM</td>
<td>CETA/ACTE Certification Committee Meeting</td>
</tr>
<tr>
<td>11:00 AM - 6:00 PM</td>
<td>AETA/CETA Board of Directors Meeting</td>
</tr>
<tr>
<td>1:30 PM - 5:00 PM</td>
<td>CETA and AETA Certification Exam</td>
</tr>
<tr>
<td>6:00 PM - 10 PM</td>
<td>AETA Board of Directors Meeting</td>
</tr>
</tbody>
</table>

## Thursday, October 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 2:00 PM</td>
<td>Golf Tournament</td>
</tr>
<tr>
<td>7:00 AM - 2:00 PM</td>
<td>Charter Boat Fishing/Tour</td>
</tr>
<tr>
<td>3:00 PM - 5:00 PM</td>
<td>Equine Wet Lab - Dr. Ed Squires, Ph.D. and Dr. Elaine Carnevale, DVM, Ph.D. Colorado State University - Embryo Morphology and Grading, Embryo Freezing, Superovulation</td>
</tr>
<tr>
<td>3:00 PM - 5:00 PM</td>
<td>Ultrasound Wet Lab - Dr. Bill Beal, Ph.D, Virginia Tech.</td>
</tr>
<tr>
<td>3:00 PM - 5:00 PM</td>
<td>Small Ruminant Wet Lab - Dr. Hernan Baldassarre, DVM</td>
</tr>
<tr>
<td>6:30 PM - 10:00 PM</td>
<td>Starship Dinner Cruise</td>
</tr>
</tbody>
</table>

## Friday, October 15, 2004

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM - 7:00 PM</td>
<td>Exhibits</td>
</tr>
<tr>
<td>7:00 AM - 5:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>9:00 AM - 4:00 PM</td>
<td>Companion Tour - Busch Gardens</td>
</tr>
<tr>
<td>8:00 AM - 8:30 AM</td>
<td>Introduction of Sponsors</td>
</tr>
<tr>
<td>8:30 AM - 9:00 AM</td>
<td>USDA-APHIS Updates BSE, Japan</td>
</tr>
<tr>
<td>9:00 AM - 10:00 AM</td>
<td>Dr. Peter Hansen, Ph.D., University of Florida - Can ET Be Used to Improve Pregnancy Rate in Heat Stressed Dairy Cattle</td>
</tr>
<tr>
<td>10:00 AM- 10:30 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 AM - 11:00 AM</td>
<td>Dr. John Hasler, Ph.D. -Vitrification Update</td>
</tr>
<tr>
<td>11:00 AM - 12:00 PM</td>
<td>AETA &amp; CETA Annual Business Meeting</td>
</tr>
<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30 PM - 2:15 PM</td>
<td>Dr. Elaine Carnevale, DVM, Ph.D., Colorado State University - Assisted Reproduction in the Horse</td>
</tr>
<tr>
<td>2:15 PM - 3:00 PM</td>
<td>Dr. Hernan Baldassarre, DVM, Nexiatechnologies Inc. - State of the Art (Assisted Reproductive Technology) in Goats and Sheep</td>
</tr>
<tr>
<td>3:00 PM - 3:30 PM</td>
<td>Break</td>
</tr>
<tr>
<td>3:30 PM - 4:15 PM</td>
<td>Dr. Charles Looney, Ph.D., Ovagenix - Environmental Influences on ET, Breed Differences</td>
</tr>
<tr>
<td>4:15 PM - 5:15 PM</td>
<td>Certification Session for AETA/CETA</td>
</tr>
<tr>
<td>6:00 PM - 7:00 PM</td>
<td>Social Hour</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>Banquet</td>
</tr>
</tbody>
</table>
Saturday, October 16

6:45 AM - 8:00 AM  Past Presidents/Board of Directors Breakfast
7:00 AM - 8:00 AM  Continental Breakfast
8:00 AM - 5:00 PM  Companion Tour - Ybor, Columbia Restaurant, Florida Aquarium/ Catamaran tour of Tampa Bay
8:00 AM - 9:00 AM  Dr. Cliff Lamb, Ph.D., University of Minnesota - The Use of GnRH and CIDRS to Synchronize Ovulation in Recipients
9:00 AM - 10:00 AM Dr. Paul Greenough, Ph.D. - Stress, Management, and Nutritional Mismanagement; Their Affect on Reproductive Inefficiency and Lameness
10:00 AM - 10:30 AM Break
10:30 AM - 12:00 PM Dr. Paul Greenough, Ph.D. - Continued
12:00 PM - 1:30 PM  Lunch
1:30 PM - 2:15 PM  Dr. Randy Prather, Ph.D., University of Missouri - Genetic Modification of Swine for Medicine and Agriculture
2:15 PM - 3:00 PM  Dr. Bob Godke, Ph.D., Louisiana State University - Trans Vaginal Ultrasound Guided Oocyte Recovery in Species Other than Cattle
3:00 PM - 3:30 PM  Break
3:30 PM - 5:30 PM  Practioners Forum
Moderator - Dr. Reuben Mapletoft, DVM, Ph.D., University of Saskatchewan
Practioners - Dr. Bill Beal USA
  Dr. Roger Suave CAN
  Dr. Gordon McDonald CAN
  Dr. Brad Stroud USA

***RESERVE YOUR ROOM NOW***
Marriott Tampa Westshore
1001 North Westshore Blvd.
Tampa, Florida 33607
Tel: 813-282-5706; Fax: 813-287-0561
AETA Board

PRESIDENT
Dr. Larry Kennel
Cornerstone Genetics
1489 Grandview Road
Mount Joy, PA 17552
(717) 653-4825
Fax: (717) 653-6966
lkdvim@juno.com

VICE PRESIDENT
Dr. Thomas L. Rea
Genetics West
17890 WCR5
Berthoud, CO 80513
(970) 535-0788
Fax: (970) 535-0788
trgeneticswest@aol.com

SECRETARY-TREASURER
Dr. Pat Richards
Pat Richards DVM
1215 E. 2000 Street
Bliss, ID 83314
(208) 352-1934
Fax: (208) 352-1934
richards@magiclink.com

DIRECTORS
Dr. Dan Hornickel
Sunshine Genetics, Inc.
W7782 U.S. Hwy. 12
Whitewater, WI 53190
(262) 473-8903
Fax: (262) 473-3660
sunshine@idcnet.com

Dr. Todd Bickett
Bickett Genetics, Inc.
455 Brotherton Lane
Chickamauga, GA 30707
(706) 375-6586
Fax: (706) 375-6586
tjbickett@aol.com

Dr. Cheryl F. Nelson
Nelson Reproductive Service
1735 Pinckard Pike
Versailles, KY 40383
(859) 873-7319
cnl79@qx.net

AETA Committees

Audit Committee
Edwin Robertson, D.V.M., Chair
Harrogate Genetics International Inc.
P. O. BOX 1
Harrogate, TN 37752
Phone: (423) 869-3152; Fax: (423) 869-5546
E-mail: edwinrobertson@hotmail.com

Committee Members
Daniel R. Hornickle, D.V.M.
Richard O. Whitaker, D.V.M.

Certification Committee
Stephen Malin, D.V.M., Chair
Malin Embryo Transfer
N5404A Highway 151
Fond du Lac, WI 54937
E-mail: malin@spiritusa.net

Committee Members
David C. Faber, D.V.M.
Larry Horstman, D.V.M.
Joseph M. Wright, D.V.M.
James K. West, D.V.M.

Convention Exhibit Committee
Patrick M. Richards, D.V.M., Chair
1215 East 2000 South
Bliss, ID 83314
Phone: (208) 539-3076; Fax: (208) 352-1934
E-mail: richards@magiclink.com

Committee Members
Daniel R. Hornickle, D.V.M.
Philip G. Buhman, D.V.M.
David B. Duxbury, D.V.M.
Walter L. North, D.V.M.

IMMEDIATE PAST PRESIDENT
Dr. Randall H. Hinshaw
Ashby Embryos
1685 Office One Garbers Church Road
Harrisonburg, VA 22801
(540) 433-0430
Fax: (540) 433-0452
rhinshaw@rica.net
Convention/Program Planning Committee
Thomas L. Rea, D.V.M., Chair
Genetics West
17890 WCR 5
Berthoud, CO 80513
Phone: (970) 535-0788; Fax: (970) 535-0788
E-mail: trgeneticswest@aol.com

Committee Members
John Hasler, Ph.D.
Kathy Creighton-Smith

Cooperator Committee
Scott W. Armbrust, D.V.M., Chair
Paradocs Embryo Transfer Inc.
121 Packerland Drive
Green Bay, WI 54303
Phone: (920) 498-8262; Fax: (920) 498-8181
E-mail: pdocset@sbcglobal.net

Committee Members
Richard S. Castleberry, D.V.M.
Darrel DeGroff, D.V.M.
Robert Rowe, D.V.M.
James West, D.V.M.
Byron Williams, D.V.M.

GMO Resolution Committee
Randall H. Hinshaw, D.V.M., Chair
Ashby Embryos/Ashby Herd Health Services Inc.
1685 Office 1 Garbers Church Road
Harrisonburg, VA 22801-4525
Phone: (540) 433-0430; Fax: (540) 433-0452
E-mail: RHinshaw@RICA.NET

Committee Members
Scott Armbrust, D.V.M.
Glenn Engellant, D.V.M.
Jimmy Webb, D.V.M.

Government Liaison & Animal Health & Regulations Committee
Richard O. Whitaker, D.V.M., Chair
New England Genetics Corporation
10 Business Park Way
Turner, ME 04282
Phone: (207) 657-4469; Fax: (207) 657-5542
E-mail: moodoc@megalink.net

Committee Members
Charles Gue, D.V.M.

Manuals, Promotion, and Membership Committee
Thomas A. Borum, D.V.M., Chair
Borum’s Veterinary Embryonics
145 East Franklin Street
Natchez, MS 39120
Phone: (601) 442-5522; Fax: (601) 442-5523
E-mail: tborum@iamerica.net

Committee Members
Stanley F. Huels, D.V.M.
Ronald M. Kling, D.V.M.
Robert Zinnikas, D.V.M.

Membership Committee
Cheryl F. Nelson, D.V.M., Chair
Nelson Reproductive Service
1735 Pinckard Pike
Versailles, KY 40383
Phone: (859) 873-7319
E-mail: cnl79@qx.net

Committee Members
Sam Edwards, D.V.M.
Brad Pedersen, D.V.M.
Jimmy Webb, D.V.M.

Newsletter Committee
John F. Hasler, Ph.D., Chair
427 Obenchain Road
Laporte, CO 80535
Phone: (970) 377-2670
E-mail: jfhasler@viawest.net

Committee Members
Kathy Creighton Smith
Roger Thompson, D.V.M.
ViGro™
embryo transfer solutions

Quality
+ Produced using only ultra pure chemicals
+ All components are fully traceable
+ No additional filtering required
+ **Complete Flush Solution** (1 and 2 L) and **Rinsing Solution** (1 L) are 0.2μ filtered
+ All ViGro 20ml and 50ml medium (including **Holding Plus**) are 0.1μ filtered

Consistency
Strict quality control standards exceed regulatory requirements.
+ Manufactured on-site in FDA-inspected pressurized clean rooms
+ GMP (Good Manufacturing Practice) is the minimum standard
+ Osmolality range 280 - 295mOsm
+ pH range 7.3 - 7.5
+ Independent analysis and QC testing performed on each batch

Performance
+ Setting the industry standard since 1989
+ Certificates of Analysis available upon request
+ All ViGro products are registered with the FDA as non-prescription Veterinary Drugs

peace of mind

1335 NE Terre View Dr. Pullman, WA 99163
Toll Free US & Canada: 800-335-8595
Telephone: +509-335-4047
Fax: 509-335-1064
Email: info@abtechnology.com
Website: www.abtechnology.com

A Division of Bioniche Animal Health USA, Inc.
# Quality Embryo Transfer Supplies Delivered on Time.

**Agtech stocks the supplies you use everyday.**

<table>
<thead>
<tr>
<th>Folltropin V</th>
<th>BioLife Media</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Folltropin V" /></td>
<td><img src="image2" alt="BioLife Media" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Irradiated Embryo Transfer Straws</th>
<th>MiniPet Pipettor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Irradiated Embryo Transfer Straws" /></td>
<td><img src="image4" alt="MiniPet Pipettor" /></td>
</tr>
</tbody>
</table>

Your supplies arrive on time, everytime.

View Agtech’s product selection online at [www.agtechinc.com/store](http://www.agtechinc.com/store).
To request our 24 page product catalog, visit us at [www.agtechinc.com/request](http://www.agtechinc.com/request) or call us at 800-367-4016

---

**Agtech, Inc.**  
800-367-4016  
web: [http://www.agtechinc.com](http://www.agtechinc.com)  
Phone: 785-776-3863  
email: agtech@agtechinc.com
pluset®

a product of Laboratorios Calier, S.A.

for predictable and successful superovulation will soon be available ONLY from

minitube ™

Pluset® is a patented bioactive equal ratio of follicle stimulating hormone (FSH) for multiple follicular growth and luteinizing hormone (LH) for continued growth and maturation.

Pluset’s FSH and LH are extracted from certified virus-free porcine pituitary glands as naturally occurring glycoprotein hormones.

Pluset® is bioassayed according to the International WHO Standard for biological activity.

Pluset® ensures biological efficiency, batch to batch uniformity, and better donor recovery after treatment.

NEW PACKAGE WITH SINGLE BOTTLE CONTAINING BOTH FSH + LH

minitube ™

Leading reproductive technology through the 21st century.

Minitube of America, Inc. Verona, WI 800.646.4882 usa@minitube.com
Minitube Canada Ingersoll, Ontario 800.500.7978 canada@minitube.com

Parc Empresarial Mas Blau II
Alta Ribagorza, 6-8.
El Prat 08820
SPAIN
Ph.: +34 93 5069161
Fax: +34 93 5069191
e-mail: export@calier.es
www.calier.es
When You Need Hormones
Think Diamondback Drugs

Estradiol/Progesterone - for embryo transfer
Combinations for lactation induction protocols, too

Dexamethasone Sodium Phosphate
Prednisolone Acetate

Testosterone Cypionate
Testosterone Aqueous
Boldenone Undecylenate (compare to Equipoise®)

Hydroxyprogesterone Caproate

L-Thyroxine
Liothyronine

SDZ -TMP Injection (compare to Tribrissen®)

Also: Reserpine Injection

Toll Free 1-866-646-2223
Toll Free Fax 1-866-646-2235

www.diamondbackdrugs.com