SucroMate™ Equine
THE ONLY FDA APPROVED DESLORELIN PRODUCT

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### OVERVIEW

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td><strong>7.27 Wed</strong></td>
<td>8:00 am - 5:00 pm</td>
<td>Canine Seminar&lt;br&gt;Grand Ballroom B</td>
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<tr>
<td></td>
<td>5:00 pm - 7:00 pm</td>
<td>Opening Session Abstract&lt;br&gt;Grand Ballroom A</td>
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<td>7:00 pm - 8:30 pm</td>
<td>Opening Session Abstract Reception&lt;br&gt;Vanderbilt Terrace</td>
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<tr>
<td><strong>7.28 Thur</strong></td>
<td>7:30 am - 9:00 am</td>
<td>David E. Bartlett Award for Lifetime Achievement in Theriogenology</td>
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<td></td>
<td>9:00 am - 11:00 am</td>
<td>Dr. Jerry Rains Memorial Abstract Competition&lt;br&gt;Sponsored by Merck Animal Health&lt;br&gt;Grand Ballroom A</td>
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<td></td>
<td>11:00 am - 12:00 pm</td>
<td>SFT Business Meeting&lt;br&gt;Hoover</td>
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<td>1:00 pm - 3:00 pm</td>
<td>ACT Business Meeting&lt;br&gt;Hoover</td>
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<td>3:00 pm - 3:30 pm</td>
<td>Student/Mentor Reception&lt;br&gt;Grand Ballroom A</td>
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<td>3:30 pm - 5:00 pm</td>
<td>Student Case Presentations&lt;br&gt;Grand Ballroom A</td>
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<td>5:00 pm - 8:00 pm</td>
<td>Exhibit Hall Opening Reception&lt;br&gt;Sponsored by Merck Animal Health, Universal Imaging and Omni Grove Park Inn&lt;br&gt;Grand Ballroom BC</td>
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<td>5:30 pm - 7:30 pm</td>
<td>Craft Beer Tasting&lt;br&gt;Grand Ballroom BC</td>
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<td>5:45 pm - 8:00 pm</td>
<td>Student Quiz Bowl&lt;br&gt;Sponsored by Merck Animal Health and Current Conceptions&lt;br&gt;Grand Ballroom A</td>
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<tr>
<td><strong>7.29 Fri</strong></td>
<td>7:00 am - 8:00 am</td>
<td>Continental Breakfast in the Exhibit Hall&lt;br&gt;Grand Ballroom BC</td>
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<td>8:00 am - 10:00 am</td>
<td>Plenary Speaker Joseph Dalton&lt;br&gt;Sponsored by the American College of Theriogenologists&lt;br&gt;Grand Ballroom A</td>
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<td>10:00 am - 10:30 am</td>
<td>Break in the Exhibit Hall&lt;br&gt;Sponsored by Lane Manufacturing&lt;br&gt;Grand Ballroom BC</td>
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<td></td>
<td>10:30 am - 12:30 pm</td>
<td>Small Animal Abstracts&lt;br&gt;Heritage Ballroom B&lt;br&gt;Food and Fiber Animal Abstracts&lt;br&gt;Roosevelt&lt;br&gt;Case Reports&lt;br&gt;Hoover&lt;br&gt;Equine Abstracts&lt;br&gt;Grand Ballroom A</td>
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<td>12:30 pm - 1:30 pm</td>
<td>Lunch in the Exhibit Hall&lt;br&gt;Grand Ballroom BC</td>
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<td>1:30 pm - 5:00 pm</td>
<td>Breakout Sessions:&lt;br&gt;Small Animal Track&lt;br&gt;Hoover&lt;br&gt;Production Animal&lt;br&gt;Roosevelt&lt;br&gt;Equine Track&lt;br&gt;Sponsored by Rood &amp; Riddle&lt;br&gt;Equine Hospital &amp; Veterinary Pharmacy&lt;br&gt;Grand Ballroom A</td>
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<td>3:30 pm - 4:00 pm</td>
<td>Break in the Exhibit Hall&lt;br&gt;Grand Ballroom BC</td>
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<td>6:00 pm - 7:00 pm</td>
<td>Awards Dinner Reception&lt;br&gt;Mountain View Terrace</td>
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<td>7:00 pm - 10:30 pm</td>
<td>Therio Awards Dinner &amp; Live Auction&lt;br&gt;Sponsored by Merck Animal Health and Universal Imaging&lt;br&gt;Heritage Ballroom AB</td>
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<tr>
<td><strong>7.30 Sat</strong></td>
<td>7:00 am - 8:00 am</td>
<td>Continental Breakfast in the Exhibit Hall&lt;br&gt;Sponsored by Professional Embryo Transfer Supply&lt;br&gt;Grand Ballroom BC</td>
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<td>7:00 am - 8:00 am</td>
<td>Christian Veterinary Mission Breakfast&lt;br&gt;Sponsored by Nutramax Eisenhower</td>
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<td></td>
<td>7:00 am - 8:00 am</td>
<td>So you want to become a diplomate?&lt;br&gt;Taft</td>
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<tr>
<td></td>
<td>7:00 am - 10:00 am</td>
<td>ACT Educator’s Forum&lt;br&gt;Sponsored by the Theriogenology Foundation&lt;br&gt;Heritage A</td>
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<td></td>
<td>8:00 am - 5:00 pm</td>
<td>Breakout Sessions:&lt;br&gt;Small Animal Track&lt;br&gt;Hoover&lt;br&gt;Production Animal&lt;br&gt;Roosevelt&lt;br&gt;Equine Track&lt;br&gt;Sponsored by Rood &amp; Riddle&lt;br&gt;Equine Hospital &amp; Veterinary Pharmacy&lt;br&gt;Grand Ballroom A</td>
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<td></td>
<td>10:30 am - 12:30 pm</td>
<td>Practice Management&lt;br&gt;Taft</td>
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<td></td>
<td>12:30 pm - 1:30 pm</td>
<td>Lunch in the Exhibit Hall&lt;br&gt;Grand Ballroom BC</td>
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</tbody>
</table>

*Additional registration required. See registration desk for details.

Video and audio recording is strictly prohibited during any session.
GUEST ROOMS
Main Inn
All three-digit rooms are located in the Main Inn
Sammons Wing
All four-digit rooms ending with the numbers 11-44 are located in the Sammons Wing
Vanderbilt Wing
All four-digit rooms ending with the numbers 50-77 are located in the Vanderbilt Wing
Spa
Take the guest floor elevators in the Sammons or Vanderbilt Wing to access Spa tunnel
Elaine’s Dueling Piano Bar
Take the Atrium elevator to level “E” in the Vanderbilt Wing

MEETING ROOMS
All meeting rooms are listed below.

Vanderbilt Wing
- Sammons Wing
  (Lobby Level)
- The Grand Ballroom
- Coolidge Suite
- Eisenhower Suite
- Hoover Suite
- Roosevelt Suite
- Taft Suite
- Wilson Suite

Sammons Wing
- Dogwood Suite
- Heritage Ballroom
- Laurei Suite
- Rhododendron Suite
- Skyline Room

Vanderbilt Wing
- Pre-function A
- Pre-function B
- Pre-function C
- Pre-function D
- Pre-function E
- Pre-function F
- Pre-function G
- Pre-function H
- Pre-function I
- Pre-function J
- Pre-function K
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- Pre-function M
- Pre-function N
- Pre-function O
- Pre-function P
- Pre-function Q
- Pre-function R
- Pre-function S
- Pre-function T
- Pre-function U
- Pre-function V
- Pre-function W
- Pre-function X
- Pre-function Y
- Pre-function Z

Cover photos courtesy of Explore Asheville and the Omni Grove Park Inn
WE INVITE YOU to roll up your sleeves and learn by doing as our team of experts, headed up by Drs. Magi Casal and Cheryl Lopate, combines classroom instruction with hands-on guidance at practicum stations for a variety of reproductive procedures. You will have the opportunity to acquire the skills and confidence you need to perform these procedures in your own practice.

The format for the day will consist of two hours of lecture followed by two hours of practicum station instruction in the morning, a break for lunch, and then the same to be repeated in the afternoon.

**Morning Classroom Sessions:**
1. Endometrial cytology, biopsy and testicular cytology and biopsy: Procedures and tips
2. Semen handling for fresh, fresh-chilled and frozen semen: Procedures and tips

**Afternoon Classroom Sessions:**
1. Neonatal emergency stabilization
2. Neonatology - Practical tips and test your knowledge

Procedures to be covered during the wet lab at practicum stations include (but are not limited to):

**Morning Wet Lab Session:**
- Handling frozen semen and working with liquid nitrogen
  - Safety precautions when working with liquid nitrogen
  - Placing straws in goblets and loading goblets and vials onto canes
  - Thawing straws and vials of frozen semen
  - Retrieving yolk from eggs for addition into extender media
- Reviving (apparently) DOA spermatozoa
- Tips for handling agglutinated spermatozoa
- Motility assessment of spermatozoa - training your eye
- Use of extenders and Percoll gradients
- HOST evaluation of sperm cells
- Uterine and testicular biopsy techniques (including endoscopic techniques)
- Honing ultrasound skills (pregnant and non-pregnant female reproductive tracts, testicles, an anasarca puppy and hopefully other interesting specimens)

**Afternoon Wet Lab Session (morning practicum stations will still be available):**
- Neonatal resuscitative techniques, including CPR
- Tube feeding neonates
- IV access and interosseous fluid administration in neonates
- Dee Lee mucus trap use
- Rewarming techniques for hypothermic neonates
- Use of acupressure/accupuncture (stimulate neonate to breathe, milk let down)
- Necropsy of neonates and sample collection for laboratory analysis
- And much more . . .

In addition to the classroom and wet lab instruction, participants will receive useful handouts. Resource materials include:
- A list of where to obtain supplies
- Legal aspects of reproduction practice. Generously provided by Dr. Marty Greer who holds a law degree in addition to her veterinary credentials
- International semen shipment - removing the travail and angst. Generously provided by Kim Hesler of Zoetis.
- Necropsy of fetuses and neonates - collection, processing and submission of samples. Generously provided by Dr. Dalen Agnew (reproductive pathologist who spoke at our 2015 meeting)

DON’T MISS OUT on this opportunity to meet and mingle with our colleagues, rub elbows with some of our most respected theriogenologists, and gain knowledge and skills that you will be able to take back and put into immediate use in your practices.
OPENING SESSION ABSTRACTS

Wednesday, July 27 | Grand Ballroom A
Moderator: Drs. Fernando Campos - Chillon and Maria Soledad Ferrer

5:00 pm Roberto A. Palomares, DVM, MS, PhD, DACT
Characterization of serum, uterine and vaginal IgG response against *Trichomonas foetus* surface antigen after administration of a commercial killed whole *T. foetus* vaccine in beef cows

5:15 pm Kelly London, BS
*Dr. Ghislaine Dujovne to present*
The effects of EC-Oxyrase® and coconut water on equine sperm cryopreservation

5:30 pm Kim Gleason, PhD
Do differences in maternal Immunoglobulin G influence passive transfer and subsequent cria growth in alpacas?

5:45 pm Claire Card, BSc, DVM, PhD, DACT
Prevalence of *Brucella melitensis* Seropositive goats in rural Uganda

6:00 pm Seth Bynum, BS
Gene expression and changes in biological function in placenta and uterus of ewes with subclinical pregnancy toxemia

6:15 pm Kristine Gonzales, DVM, DACT
Evaluation of oral folic acid supplementation on the incidence of cleft palates in Labrador retriever puppies, Golden retrievers, and Lab/Golden cross puppies in the Guide Dogs for the Blind breeding colony

6:30 pm Candace Lyman, DVM, DACT
16S rDNA-based profiling of canine reproductive tract microbiota reveals a complex microbial ecosystem

6:45 pm Jennifer Roberts, DVM, DACT
Time-dependent changes in pregnancy-associated glycoproteins and serum progesterone in a commercial crossbred sheep during pregnancy and the postpartum period

7:00 pm - 8:30 pm Opening Session Abstract Reception | Vanderbilt Terrace

STUDENT CASE PRESENTATIONS

Thursday, July 28 | Grand Ballroom A
Moderator: Dr. James Alexander

3:30 pm Lindsey Rothrock (University of Illinois)
Estradiol-17β and alfa-fetoprotein as diagnostic markers for ascending placentitis in a Quarter Horse broodmare

3:45 pm Christine Garrett (Auburn University)
Unilateral Ovariohysterectomy in a 3-year old German Shepherd dog

4:00 pm Jennine Lection (North Carolina State University)
Does maternal adrenocorticotrophic hormone (ACTH) administration hasten the onset of parturition in the dog?

4:15 pm Rachel Shutter (Washington State University)
Poor reproductive performance on a beef operation – a population based approach

4:30 pm Kelsey DiMiceli (Louisiana State University)
Cystic ovarian disease with inappropriate lactation in a doe

4:45 pm Kaitlyn McCombs (Auburn University)
Successful medical management of Pregnancy Toxemia in a 2-year old Katahdin ewe

DR. JERRY RAINDS MEMORIAL ABSTRACT COMPETITION

Thursday, July 28 | Grand Ballroom A
Moderator: Dr. Fernando Campos - Chillon
Sponsored by Merck Animal Health

9:00 am Firdous A. Khan, BVSc, MVSc
Nitric oxide’s dose-dependent inhibition of uterine contractility: a potential mechanism underlying persistent breeding-induced endometritis in the mare

9:15 am Viviane C. L. Gomes, DVM
The significance of eosinophils in equine uterine cytology: a retrospective study

9:30 am Kristy Meadows, BS
A rodent model for non-surgical sterilization using an antibody-guided lipid nanoparticle cytotoxin delivery system

9:45 am Stephanie White, BS, DVM
Fertility following control of follicular wave emergence with GnRH and timing of insemination in 14-day CIDR protocol in Angus cross beef heifers

10:00 am Jamie Stewart, DVM, MS
Evaluation of post-thaw semen parameters for different extenders in white-tailed deer

10:15 am Alyssa Cornelius, BS
Risk factors for canine dystocia and stillbirths

10:30 am Melissa Ann Roberts, BS
Evaluation of lipid content, mitochondrial polarity, and cryotolerance of Holstein in vitro-produced embryos following culture with Vitamin K2, Forskolin, and conditioned medium

10:45 am Margo L. Henret, BA
Role of biofilm in infectious endometritis in the horse

REGISTRATION DESK HOURS

Tuesday 4:00 pm - 6:00 pm
Wednesday 7:00 am - 4:30 pm
Thursday 7:00 am - 4:30 pm
Friday 7:00 am - 4:30 pm
Saturday 7:00 am - 2:30 pm

EXHIBIT HALL HOURS

Thursday 5:00 pm - 8:00 pm
Friday 7:00 am - 4:30 pm
Saturday 7:00 am - 1:30 pm

[Therio 2016 | Conference Program]
SMALL ANIMAL ABSTRACTS
Friday, July 29 | Heritage Ballroom B
Moderator: Dr. Carlos Pinto

10:30 am Matthew Krecic, DVM, MS, MBA, DACVIM(SAIM)
Performance of a rapid slide agglutination test for Brucella canis with canine sera containing antibodies to Leptospira spp.

10:45 am Ajadi Temitope Ayisat, DVM
Effect of methanolic extract of Spondias mombin on oestrous cycle, conception rate and gestation in rabbits

11:00 am David Best, BSc
Mammary hyperplasia in a Main Coon queen

11:15 am Eleas Wu, BS, DVM
Treatment of clitoral hypertrophy by urethral transposition in an intersex dog

11:30 am Khawla Zwida, BS
*Dr. Michelle Kutzler to present
Canine thyroid gland expresses Luteinizing hormone receptors

11:45 am Ellie Bohrer
Early onset of reproductive capacity in free-roaming unowned queens

12:00 pm Ajadi Temitope Ayisat, DVM
Hormonal, biochemical and haematological changes during gestation in rabbit does synchronized with prostaglandin f2 alpha

12:15 pm Vanmathy Kasimanickam, DVM, MS, DACVPM
Expression of retinoic acid synthesizing enzymes, ALDH1A1, ALDH1A2, and ALDH1A3 in canine testis during post-natal development

EQUINE ABSTRACTS
Friday, July 29 | Grand Ballroom A
Moderator: Dr. Celina Checura

10:30 AM Etta Bradecamp, DVM, DACT, DABVP
Results of hysteroscopic examinations performed as part of breeding soundness evaluations on mares presented for infertility - a retrospective study

10:45 AM Robyn Ellerbrock, DVM
Endocrinologic and somatic changes during the peripubertal period in Standardbred colts

11:00 AM Chelsey Leisinger, BS, MS
In vivo embryo production during induced aluteal cycles in the mare

11:15 AM Jennifer K. Morrissey, DVM
Pathogenicity of Escherichia coli isolated from the equine uterus

11:30 AM Jason B. Andrews, BSc(Hons), BVSc(Hons)
What can UCH-L1 tell us about idiopathic testicular degeneration (ITD) in the stallion?

11:45 AM Melissa Prell, DVM
Alpha-fetoprotein as a marker for equine neonatal disease

12:00 PM Etta Bradecamp, DVM, DACT, DABVP
Hysteroscopic hydrotubation of the oviducts as a treatment for idiopathic infertility in the mare - a retrospective study

12:15 PM Young Ho Choi, DVM, PhD, DACT
Update on foal production using oocytes collected from ovaries shipped post mortem in a clinical program

CASE REPORTS
Friday, July 29 | Hoover
Moderator: Dr. Maria Soledad Ferrer

10:30 am Allison P. Drexler, BS
Fecal contamination of the vagina and vestibule caused infertility of a Toggenburg doe due to a third-degree perineal laceration

10:45 am Maria Schnobrich, VMD, DACT
Reproductive tract findings in two Trisomy X (65,XXX) Thoroughbred mares

11:00 am Erin P Cambier, BSc
Diprosopia, cerebral, cerebellar and pituitary aplasia in a Charolais-cross fetus

11:15 am Audrey A. Kelleman, DVM, DACT
Endocrinological evaluation of a granulosa theca cell tumor arising during pregnancy in a mare

11:30 am Lindsey Rothrock, BS
Outcomes on four mares undergoing perineal body reconstruction

11:45 am Nicholas Jenkins, DVM
*Allison P. Drexler to present
Mucometra of the uterus and vagina in a La Mancha doe caused by vestibular and vaginal stricture secondary to dystocia

12:00 pm Robert Causey, DVM, PhD, MRCVS, DACT
Examination of the equine cervix by high magnification video-endoscopy

12:15 pm Maria Schnobrich, VMD, DACT
Creatinine measurements of accumulated intro-uterine fluid can be used to objectively diagnose urometra in mares

FOOD & FIBER ANIMAL ABSTRACTS
Friday, July 29 | Roosevelt
Moderator: Dr. Juan Romano

10:30 AM Vanmathy Kasimanickam, DVM, MS, DACVPM
Fusion of boar sperm with nanoliposomes prepared from synthetic phospholids

10:45 AM Vanmathy Kasimanickam, DVM, MS, DACVPM
Do sperm and seminal plasma microRNAs have similar pattern of expression in boar semen

11:00 AM John Roberts, DVM, BS
Morphological characteristics of Ovarian Follicular Dysplasia (OFD) observed by ultrasound in four Florida beef herds

11:15 AM Ramanathan Kasimanickam, BVSc, DVSc, DACT
Sperm and seminal plasma proteomics of bulls with differing fertility

11:30 AM Jasmin Hyatt, BVSc (Hons)
The effect of early post-partum intervention on the reproductive performance of anovulatory anestrus New Zealand dairy cows

11:45 AM Jamie Stewart, DVM, MS
Corynebacterium pseudotuberculosis as a cause of bilateral orchitis in a Boer buck

12:00 PM Jennifer H. Koziol, DVM, DACT
In vitro efficacy of novel anti-protozoal compounds against Tritrichomonas foetus

12:15 PM Hilari M French, DVM, PhD, DACT, DABVP(FA)
Bovine reproductive palpation training: What methods make a difference and do our skills really transfer?
**CANINE SEMINAR**
**Wednesday, July 27 | 8:00 am - 5:00 pm**
**Grand Ballroom B**
**Cheryl Lopate, DVM, MS, DACT**
**Margret Casal, Dr med vet, PhD, Dipl. ECAR**

We invite you to roll up your sleeves at the SFT Canine Seminar. Learn by doing as our team of experts combines classroom instruction with hands-on guidance at practicum stations for a variety of reproductive procedures. You will have the opportunity to acquire the skills and confidence you need to perform these procedures in your own practice. The seminar will be of benefit to both experienced and novice theriogenology practitioners. Turn to page 5 for more details.

Procedures to be covered include (but are not limited to):
- Semen processing and diagnostic evaluation (extenders, stains, gradients, etc.)
- Handling frozen semen and working with liquid nitrogen
- Uterine and testicular biopsy techniques
- Neonatal resuscitative techniques
- Tube feeding neonates
- IV access and interosseous fluid administration in neonates
- And much more . . .

**SO YOU WANT TO BE A DIPLOMATE?**
**Saturday, July 30 | 7:00 am - 8:00 am**
**Taft**
**Marco da Silva DVM, DACT, 2016 Exam committee chair**

Meet with the exam committee to find out the details of what it takes to become an ACT diplomate. Have your questions answered right there on the spot.

**ACT EDUCATOR’S FORUM**
**Saturday, July 30 | 7:00 am - 10:00 am**
**Heritage Ballroom A**

Sponsored by the Theriogenology Foundation
**Julie Williamson DVM, MSc**

1. Lecture on “Clinical skills learning theory and how to provide effective feedback”
2. Reproductive model potpourri mini presentations – three minute talks by those willing to share their use of models in the curriculum - what they have, what they use it for, learning objectives, etc
3. Display of reproductive models – those willing to bring their models with them can display them and show other educators the model along with instructions for building and use

**PRACTICE MANAGEMENT**
**Saturday, July 30 | 10:30 am - 12:30 pm**
**Taft**
**William Schultz, DVM, Joann Randall, DVM, DACT and Jane Barber, DVM, DACT**

Adding theriogenology to your small animal practice: a round table discussion
CONFERENCE SCHEDULE
THURSDAY, July 28

7:30 am - 9:00 am  |  David E. Bartlett Award for Lifetime Achievement in Theriogenology | Grand Ballroom A
Theriogenologist of the Year Award  |  Grand Ballroom A
Sponsored by Universal Imaging

9:00 am - 11:00 am  |  Dr. Jerry Rains Memorial Abstract Competition | Grand Ballroom A
Moderator: Dr. Fernando Campos - Chillon
Sponsored by Merck Animal Health

11:00 am - 12:00 pm  |  SFT Business Meeting | Hoover

12:00 pm - 1:00 pm  |  Lunch on your own

1:00 pm - 3:00 pm  |  ACT Business Meeting | Hoover

3:30 pm - 5:00 pm  |  Student Case Presentations | Grand Ballroom A
Moderator: Dr. James Alexander

3:00 pm - 3:30 pm  |  Student/Mentor Reception | Grand Ballroom A

5:00 pm - 8:00 pm  |  Exhibit Hall Opening Reception | Grand Ballroom BC
Sponsored by Merck Animal Health, Universal Imaging, Omni Grove Park Inn

5:30 pm - 7:30 pm  |  Craft Beer Tasting* | Grand Ballroom BC

5:45 pm - 8:00 pm  |  Student Quiz Bowl | Grand Ballroom A
Sponsored by Merck Animal Health, Current Conceptions

*Additional registration/tickets required. See registration desk for details.

Video and audio recording is strictly prohibited during any session.

POSTER SESSION
Exhibit Hall | Grand Ballroom BC

Madonna Jayne Wilda Morrison (Atlantic Veterinary College)
Hydroallantois and Prepubic Tendon Rupture in a Standardbred mare

Brittany Shumack (Auburn University)
Use of Progesterone levels to determine due date in a 1.5-year-old English Bulldog bitch

Kristina S. Baltutis (North Carolina State University)
Short gestation length in Cavalier King Charles spaniels

Elizabeth Hyde (North Carolina State University)
Estrus staging via vaginal cytology and behavior in Aye-Ayes (Daubentonia madagascariensis)

Kayla Nielsen (Western College of Veterinary Medicine)
Bilateral Testicular Sertoli cell tumors in an American Paint horse

David Best (Atlantic Veterinary College)
Pyometra in a Standardbred mare

Rebecca Cooper (University of Missouri)
Intentional Superfecundation through Surgical Insemination with cooled, shipped semen in the bitch

Lillian P. Baker (Tuskegee University)
Hydrops Allantois in a mare with twin pregnancy

Hannah Lymnaugh (University of Illinois)
Use of midazolam to enhance copulatory behavior in a maiden Standardbred stallion during semen collection

Adeline R. Noger (North Carolina State University)
A rare case of Ovarian Leiomyoma in a lion (panthera leo)

Devin Gardner (University of Missouri)
An unusual case of Fetal Maceration in a cow

Erin Patricia Cambier (Atlantic Veterinary College)
Intermittent Hemospermia and pregnancy rate in a Quarter Horse stallion
### Friday, July 29

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<tr>
<td>7:00 - 8:00 am</td>
<td>Continental Breakfast</td>
<td>Exhibit Hall</td>
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<tr>
<td>8:00 - 9:00 am</td>
<td>Plenary Speaker: Joseph Dalton, PhD – Genetics and Genomics: An Introduction</td>
<td>Grand Ballroom A</td>
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<tr>
<td>9:00 - 10:00 am</td>
<td>Plenary Speaker: Joseph Dalton, PhD – Genomics and Fertility: Where are we going and when will we get there?</td>
<td>Grand Ballroom A</td>
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<td>10:00 am - 10:30 am</td>
<td>30 Minute Break</td>
<td>Sponsored by Mission Manufacturing</td>
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<tr>
<td>10:30 am - 12:30 pm</td>
<td><strong>Small Animal Abstracts</strong></td>
<td>Heritage Ballroom B</td>
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<tr>
<td>12:30 pm - 1:30 pm</td>
<td>Lunch in the Exhibit Hall</td>
<td>Grand Ballroom BC</td>
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<tr>
<td>1:30 pm - 2:30 pm</td>
<td><strong>Small Animal Track</strong></td>
<td>Heritage Ballroom B</td>
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<td>2:30 pm - 3:30 pm</td>
<td>“Squeaks, snorts, grunts and poots - music to our ears” - the top 10 things you can do to improve neonatal and pediatric outcomes, part 1</td>
<td>Marty Greer, DVM, JD</td>
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<tr>
<td>3:30 pm - 4:00 pm</td>
<td><strong>Production Animal Track</strong></td>
<td>Roosevelt</td>
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<tr>
<td>4:00 pm - 5:00 pm</td>
<td>“Squeaks, snorts, grunts and poots - music to our ears” - the top 10 things you can do to improve neonatal and pediatric outcomes, part 2</td>
<td>Marty Greer, DVM, JD</td>
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<tr>
<td>1:30 pm - 2:30 pm</td>
<td><strong>Case Reports</strong></td>
<td>Hoover</td>
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<tr>
<td>2:30 pm - 3:30 pm</td>
<td>Abortion diagnosis</td>
<td>David Pugh, DVM, MS, MAg, DACT, DACVN, DACVM</td>
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<tr>
<td>4:00 pm - 5:00 pm</td>
<td>Male breeding soundness evaluation</td>
<td>Cliff Shipley, DVM, DACT</td>
</tr>
<tr>
<td>3:30 pm - 4:00 pm</td>
<td><strong>Equine Abstracts</strong></td>
<td>Grand Ballroom A</td>
</tr>
<tr>
<td>6:00 pm - 7:00 pm</td>
<td>Theriogenology Foundation Awards Dinner Reception*</td>
<td>Mountain View Terrace</td>
</tr>
<tr>
<td>7:00 pm - 10:30 pm</td>
<td>Theriogenology Awards Dinner* &amp; Live Auction</td>
<td>Heritage Ballroom AB</td>
</tr>
</tbody>
</table>

*Ticket required for Awards Dinner, but not for Live Auction.
**SMALL ANIMAL TRACK**

**Hoover**
Moderator: Dr. Katherine Settle

8:00 am - 9:00 am
“From taboo to touted – a mythbuster’s report “ – Analgesia for Caesarian section delivery and post-operative recovery
Steve Escobar, DVM

9:00 am - 10:00 am
“Tubes, timing and temperature – what does it matter?” – factors influencing results in progesterone measurement
William Schultz, DVM

10:00 am - 10:30 am
Break

10:30 am - 11:30 am
“Wading into controversy – what we are learning about sterilization in dogs” – Part 1 – Non-cancerous conditions associated with spay/neuter status in the canine
C. Scott Bailey, DVM, DACT

11:30 am - 12:30 pm
“Wading into controversy – what we are learning about sterilization in dogs” – Part 2 – Neoplastic diseases associated with spay/neuter status in the canine
C. Scott Bailey, DVM, DACT

12:30 pm - 1:30 pm
Lunch Provided in the Exhibit Hall | Grand Ballroom BC | Ticket Required

1:30 pm - 2:30 pm
“When sooner is better than later” – introduction of parturition in the canine
Frances Smith, DVM, PhD, DACT

2:30 pm - 3:00 pm
Uterine immune function in the cow
Réjean Lefebvre, DVM, PhD, DACT

**PRODUCTION ANIMAL TRACK**

**Roosevelt**
Moderator: Dr. Colin Palmer

9:00 am - 10:00 am
Understanding follicular waves and breeding management
Gregg Adams, DVM, MS, PhD, DACT

10:00 am - 10:30 am
Break

10:30 am - 11:30 am
Ovulation inducing agents
Gregg Adams, DVM, MS, PhD, DACT

11:30 am - 12:30 pm
Diagnostics of endometritis
Réjean Lefebvre, DVM, PhD, DACT

12:30 pm - 1:30 pm
Lunch Provided in the Exhibit Hall | Grand Ballroom BC | Ticket Required

1:30 pm - 2:30 pm
Uterine immune function in the cow
Réjean Lefebvre, DVM, PhD, DACT

2:30 pm - 3:00 pm
Equine oocyte recovery and ICSI in clinical practice: What can I expect?
Katrin Hinrichs, DVM, PhD, DACT

3:00 pm - 4:00 pm
Update on equine embryo biopsy and vitrification
Katrin Hinrichs, DVM, PhD, DACT

**EQUINE TRACK**

**Grand Ballroom A**
Moderator: Drs. Charley Love and Rob Foss

8:00 am - 9:00 am
Review of biosecurity, disinfectants to use in the breeding shed and on equipment (pros/cons)
David Scofield, DVM, MS, DACT

9:00 am - 9:30 am
Improvements of handling/processing techniques to optimize fertility
David Scofield, DVM, MS, DACT

9:30 am - 10:00 am
Break

10:00 am - 11:00 am
Applications of anti-Mullerian hormone (AMH) in equine reproduction
Barry Ball, DVM, MS, DACT

11:00 am - 11:30 am
Sexually transmitted disease monitoring, surveillance, and impact on Thoroughbred stud farms in central Kentucky
Charlie Scogg, DVM, MS, DACT

11:30 am - 12:30 pm
Lunch
The Omni Grove Park Inn Historical tour
The hotel conducts a guided history tour which covers the history of E.W. Grove, the construction and early years of the resort, the Arts & Crafts style furniture, and some of their most notable guests. The tour lasts for approximately 45 minutes. The tour is offered Wednesday through Saturday and begins promptly at 10:00 a.m. each day. See a representative at the Concierge Desk to sign up.

Thomas Wolfe House – 2 miles
Considered by many to be one of the giants of 20th-century American literature, Thomas Wolfe immortalized his childhood home in his epic autobiographical novel “Look Homeward.” Angel. Wolfe’s colorful portrayal of “Dixieland” the Old Kentucky Home boardinghouse, earned the Victorian period house a place as one of American literature’s most famous landmarks.

Biltmore Estate – 3 miles
Visit Biltmore in Asheville, NC to explore the 8,000-acre Blue Ridge Mountain backyard with exceptional field to table dining. Enjoy outdoor activities like hiking, fishing, horseback riding, and much more!

Smith-McDowell House – 5 miles
Discover Asheville’s first brick mansion, now restored as the Asheville History Center at the Smith-McDowell House. Once the home of mayors, a Civil War major, and friends of the Vanderbilts, this restored property provides a glimpse of life in the 19th century.

Blue Ridge Parkway – 5 miles
A slow-paced and relaxing drive revealing stunning long-range vistas and close-up views of the rugged mountains and pastoral landscapes of the Appalachian Highlands.

NC Arboretum – 12 miles
The North Carolina Arboretum is a 434-acre public garden that offers a wealth of activities for families and kids of all ages. The Asheville gardens feature one of the most renowned bonsai collections in the country, as well as a diversity of flower and botanical exhibits all year round.

Grovewood Gallery – adjacent to the resort
Enter the rustic iron gates of Grovewood and discover a magical experience of art, craft, history, and Old World charm. Stroll the beautifully landscaped sculpture gardens, visit a working artist’s studio, marvel at a fine collection of rare automobiles from yesteryear, discover a bit of Asheville’s early history, and feast your eyes on an expansive collection of fine American craft at one of the nation’s premier galleries.

The Orange Peel (live music) – 2 miles
The Orange Peel Social Aid & Pleasure Club is one of the Southeast’s preeminent concert venues. The club features state-of-the-art sound and lighting equipment rarely found in a club of its size. The smoke-free facility has a beautiful interior, creating a fabulous setting for enjoying the premier musicians who perform here.

River Arts District – 4.5 miles
The River Arts District consists of a vast array of artists and working studios in 22 former factories and historical buildings nestled along the French Broad River. More than 180 working studios, many with showrooms and galleries, are open every day, all year round. Artists work in paint, pencil, pottery, metal, fiber, glass, wax, paper and more. Be inspired, shop, meet the artists and watch live demonstrations!
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**THE THERIOGENOLOGY FOUNDATION**

**8TH ANNUAL AUCTION**

Silent Auction | Grand Ballroom BC | Thurs 5:00 pm - 8:00 pm | Fri 7:00 am - 4:30 pm | Sat 7:00 am - 10:30 am

Awards Dinner* & Live Auction | Heritage Ballroom AB | Fri 7:00 pm - 10:30 pm

*Additional registration is required. See registration desk for details.

**SAMPLES OF 2016 LIVE AUCTION ITEMS**

**2016 Breeders Cup package for two**
**Donated by Tom Riddle**

Dates of the 2016 Breeders Cup are Nov. 4 & 5

Includes airfare to Los Angeles from anywhere in the Continental US serviced by Delta, tickets to sponsor seating both days of Breeders Cup, which includes the best seats at the track (Santa Anita), all the food and drink in the sponsor chalet, and three nights lodging at a 4 star hotel. With sponsor tickets they would have some other perks like tickets to the Breeders Cup after party.

**High Mountain Luxury Home in Greensprings, Oregon**
**Donated by Gail Colbern**

Four-night stay in the Greensprings, a lovely mountain community east of Ashland, OR. The Greensprings is located in Southern Oregon, at an altitude of 3,000 - 5,000 ft. It is known for its history (the Applegate Trail and homesteading), logging, hunting, fishing and the independent character of its residents. Recreation includes fishing, hunting, boating, river rafting, hiking (the Pacific Crest Trail runs adjacent to the Colbern property) and horseback riding. Stay will occur on a mutually agreed date and includes a signed photograph of a Greensprings sunrise by Dr. Colbern. Also includes $100 Gift voucher to the Oregon Shakespeare Festival in Ashland. For more information on the plays, please see the Oregon Shakespeare Festival website at www.osfashland.org. Also includes a one-day wine tour in the Rogue and Applegate Valleys.

**Pulsator IV complete electronic ejaculator unit**
**Donated by Lane Manufacturing, Inc**

Electronic Ejaculator complete unit; The Pulsator IV is the only machine on the market with a five-year warranty! It has three programs, manual, program, and learn, that allows the operator complete control during the ejaculation process. The complete package comes with the Pulsator IV, charger, power supply, one probe (your choice of size), two probe cords, scrotal tape, semen collection handle, 100 disposable cones, carrying case, and instructions.

**One-week stay at Seabrook House**
**Donated by Tom Riddle**

Private island community featuring two championship golf courses, tennis center, horseback riding, new beach club, fitness and aquatic center. Amenity passes for four. Classic Southern beach house with 4 bedrooms, 3.5 baths. Near historic Charleston, SC named #1 tourist destination in US by Conde Nast. Choice of greens fee, dolphin watching boat, or horseback riding for two included.


**Navajo Fetish Necklace & Earrings**
**Donated by Anonymous**

Navajo five strand fetish necklace by Corrine Ramirez. Rarely worn so condition is excellent. Animals include turquoise Thunderbird in center of fifth strand along with 59 other animals including horse, fox, fish, squirrel, rabbit, bison, duck, pig, badger, mole, mountain lion and others with two large foxes as stretchers for the five strands. Delicate Penn shell heishi beads between the fetishes with a sterling silver clasp. Top strand 23 inches, bottom strand 28 inches with other 3 equally spaced. Stones include turquoise, pipestone, marble, serpentine, jet, and others. Pink mother of pearl horse earrings included.

**Blue Ridge Symphony Massage**
**Donated by Mike Thompson**

Grove Park Inn Spa scheduled for 7/31/16 at 10:15 AM. After a brief conversation concerning your specific needs, your therapist will compose the perfect treatment, blending any combination of Swedish, Reflexology, Deep Tissue or Stone massage. A symphony of soothing healing. 80 minutes

Any spa package allows all day use of the spa facilities, including all the pools, saunas, etc. Great way to relax after the meeting!
Dr. Joseph C. Dalton is a Professor and Extension Dairy Specialist in Animal and Veterinary Science at the University of Idaho. He received his Ph.D. degree from Virginia Tech. Dalton is currently a co-project director of a multi-institutional, 5-year USDA-NIFA-AFRI grant focused on “Improving the Fertility of Dairy Cattle using Translational Genomics.” Overall, Dalton’s research in applied male and female reproductive physiology focuses on factors important to increasing the efficiency of artificial insemination in cattle. Dalton’s extension program emphasizes the enhancement of reproductive efficiency in cattle. He has given presentations at conferences throughout the United States, Canada, Poland, Czech Republic, Slovakia, Hungary, Mexico, Brazil, Argentina, Ireland and the Philippines. Dalton serves as the past president of the Dairy Cattle Reproduction Council.
American Kennel Club Veterinary Outreach Program
The AKC Veterinary Outreach Program serves as a bridge between the American Kennel Club and the veterinary community. Our goal is to provide the most up-to-date information on purebred dogs and to be the go-to resource for all aspects of dog training, clubs and activities for people and all dogs.

Animal Cell Therapies, Inc.
Animal Cell Therapies, Inc. was founded by Dr. Kathy Petrucci on the belief that, through the best science and innovation, we can take better care of our whole family. As scientists and doctors, pet lovers and pet owners, Animal Cell Therapies, Inc. is dedicated to giving animals the best life that science can provide. Millions of people worldwide want to give their pets the long, healthy lives they deserve. Our mission is simple: to deliver a new frontier of stem cell therapies and make that hope a reality. Man’s best science for man’s best friend.

Animal Reproduction Systems
Artificial reproduction products for equine, bovine, porcine and canine professions.

B.E.T. Labs/B.E.T. Pharm
Equine practitioners constantly face the challenge of patients with unique needs. In the area of endocrine disorders and reproduction this is especially true, creating the desire for custom-made medications. BET PHARM is an established, stand-alone pharmacy specializing in the area of endocrine and reproductive prescription medications. Our modern pharmacy can provide both standard and custom prescription medications. These include sterile injectables and state of the art controlled release formulations such as biodegradable microparticles or long acting sterile solutions.

BET PHARM maintains strict quality control. All injectables undergo rigorous sterility testing. We have external quality control monitoring by independent labs, such as Analytical Research Laboratories for stability, pyrogens, purity and verification of prescribed potency. We adhere to standards set forth in the 797 guidelines. Our quality assurance program is designed to ensure every prescription meets your specifications. Our pharmacists have extensive training in compounding procedures and utilize a class 100/ ISO 5 cleanroom to prepare our compounds in our state-licensed facility. When you choose BET Pharm you can be confident your patients will receive medications of the highest quality.

BET LAB has over 6000 veterinary and University clients for which it performs endocrine assays both for clinical and research applications. Special research discounts are available. BET LAB is CLIA certified and has been in operation for 31 years. Free consultation is part of our service. We have operated a similar lab in Rio de Janeiro, Brazil for 15 years.

BCF Technology
BCF are leaders in innovative ultrasound, specifically developed for on-farm conditions. BCF design and manufacture the Easi-Scan bovine ultrasound scanner and BUG ultrasound goggles for use all over the world.

bioMerieux
bioMerieux is a world leader in automated microbiology solutions, such as automated Identification/susceptibility testing with VITEK solutions, manual solutions such as API, ETEST and full range of lab automation equipment.

ChemoMetec A/S
ChemoMetec A/S displays NucleoCounter SP-100. It provides fast and accurate counting of sperm cells in ejaculates and extended doses from all mammals in 30 seconds. It also measures %viability in raw semen and extended doses with no interference from extender. It requires no calibration, no maintenance and is easily operated.

Christian Veterinary Mission
CVM is a fellowship of Christian veterinarians, veterinary students, technicians and those of allied interest who are committed to living their faith out through their profession. CVM staff and volunteers serve in developing countries around the world as well as here in the United States.

Cryoport
Cryoport is the premier provider of cold chain logistics solutions to the life sciences industry through our purpose-built proprietary packaging, information technology and specialized cold chain logistics expertise. We provide industry-leading shipping and storage logistics solutions for biologic materials, such as immunotherapies, stem cells, CAR-T cells and reproductive cells, for biopharmaceutical, IVF and animal health organizations around the world.

The Duzan Agency, Inc.
The Duzan Agency, Inc. is a livestock insurance agency with over 20 years of experience, we offer live animal import and export, domestic transit, mortality, and semen and embryo storage and shipping. We write coverage with four domestic carriers as well Lloyd's of London. All carrier rates are rated A or higher by A.M. Best. Please contact us for more information.

E. I. Medical Imaging
E.I. Medical Imaging® is a world leader and the only US manufacturer of portable ultrasound solutions specifically engineered for veterinary use. For the past 31 years, the Company's core values have remained intact: putting the customer first and delivering solid, effective ultrasound solutions. EIMI provides the Ibx® portable ultrasound systems.

eVetPractice.com
Cloud based practice management system; to transform how you handle your business. We will help bring you to the next level of client communication and management. Our goal is to help you become more efficient, allowing you to focus more time and energy toward what you do, providing the best Veterinary medicine.

Fertility Technology Resources, Inc
Fertility Technology Resources: serving the fertility/breeder market since 1987. Our premiere line includes: Sperm Class Analyzer® CASA (software for automated semen analysis including Morphology, Motility-Concentration, DNA Fragmentation, Viability and Production modules), microscopes, counting chambers, slides, coverslips and Morphology slides and stains. We carry an extensive line of disposables.

Hagyard Pharmacy
PCAB accredited Hagyard Pharmacy was founded by equine veterinarians to fulfill the needs of their equine clients. We are a full service pharmacy offering prescription compounding services and specialty equine veterinary products. Our Reputation is as important as yours. Put your trust in Hagyard Pharmacy to provide quality, service and Value.

Hamilton BioVet
INTRODUCING THE EQUOCYTE!
Hamilton BioVet introduces the first cost effective method for shipping equine oocytes. The reliability of the Equitainer coupled with a dependable temperature of 22°C (+/-1) makes it the perfect choice for shipping oocytes. Stop by booth number 9 and see the EquoCyte.

IMV Technologies USA
IMV Technologies has provided the equine industry with artificial...
insemination products for over 25 years. In collaboration with many researchers and organizations (INRA, veterinary schools, universities, and French National Studs), IMV Technologies has designed solutions welcomed by equine breeders for their novelty and quality. Heading the list of these products is INRA 96®, a medium used all over the world for the long-term preservation of fresh semen. Every year, more than 250,000 mares are fertilized using our company’s technology. The IMV team stands ready to assist horse breeders from start to finish with all their reproductive needs, including training in the latest semen preservation techniques.

**IVF Bioscience**

Bringing a new approach to the animal ART market, IVF Bioscience’s new IVP media range for bovine, caprine, and ovine will help to produce an increased number of higher quality embryos. Alongside our ready-to-use and serum-free media, we aim to provide exceptional service levels to help create a more productive world.

**Jorgensen Laboratories**

Jorgensen Laboratories is known for high quality veterinary surgical suture, instruments and equipment. See the Jorvet range of capital equipment including electrosurge units, the VetCam video otoscope, the Tonovet, centrifuges, microscopes, anesthesia machines, monitoring devices and the latest in laser therapy.

**KARL STORZ Veterinary Endoscopy**

KARL STORZ offers a wide range of rigid and flexible endoscopes, instruments and imaging systems for animals of all sizes. Eliminating the need for multiple systems, our high quality rigid and flexible scopes use the same video processor and light source. KARL STORZ veterinary products, customer service and hands-on training seminars are the best available.

**Lane Manufacturing**

Lane Manufacturing, Inc has been manufacturing semen evaluation equipment for over 40 years. The Pulsator IV electronic ejaculator is known around the world as the gentlest and the most user friendly of all ejaculators commercially manufactured. We strive to be the best in manufacturing quality, durable and efficient semen collection equipment, because this is our only business!

**Merck Animal Health**

As a global healthcare leader, Merck works to help the world be well. Merck Animal Health, known as MSD Animal Health outside the United States and Canada, is the global animal health business unit of Merck. We offer one of the industry’s most innovative portfolios – not only of products, but also of services and technologies – to prevent, treat and control diseases across all major farm and companion animal species. Our mission – The Science of Healthier Animals – guides our work. Healthier animals mean a sustainable food supply, protection for humans against diseases passed from animals, and longer, healthier lives for pets. For more information, visit www.merck-animal-health.com.

**Minitube USA**

Minitube USA, a subsidiary of Minitube International, offers a comprehensive, multi species product line and a fully staffed equipment service center to meet any theriogenologist’s needs. Our continued collaboration with leading reproductive physiologists, universities and institutes around the world enables us to be on the leading edge of industry development.

**MOFA Global**

MOFA Global provides innovative technologies for animal reproduction. Products include semen extenders, embryo media, AI and ET catheters, diagnostic and processing equipment, shipping and storage containers, specialized procedural tools and more. VitaeCell stem cells, a division MOFA Global, provides 100% Mesenchymal Stem Cells for Veterinary procedures. MOFA Global’s pursuit of advanced research, technical services and AAASB accredited continuing education courses is provided through parent company CRI, at the International Center for Biotechnology.

**Multimin USA, Inc.**

Multimin®90 is an injectable fast acting chelated trace mineral treatment containing copper, zinc, manganese, selenium. University studies indicated that Multimin®90 benefits conception and embryo survival in breeding heifers and cows. Multimin® 90 supplies trace minerals critical for spermatogenesis and it is recommended that bulls are treated 45-60 days before BSE or breeding.

**Neogen Corporation**

Neogen’s Animal Safety Division manufactures and markets genomic solutions, reproductive products, rodenticides and pharmaceuticals, vaccines, topicals, disinfectants, and diagnostic products to the professional animal care market.

**Partnar Animal Health**

Please stop the Partnar Animal Health booth to see the latest in Ovum Pick-up Equipment and Supplies, and get a copy of our latest embryo transfer supply catalog.

**Professional Embryo Transfer Supply, Inc.**

For a quarter century, PETS, Inc. has been a world leader in the embryo transfer community. Our goal has been and remains your success through excellent customer service. We strive to keep the best quality products in stock for same day shipping.

**Royal Canin**

Our mission is to bring out the magnificence in every cat and dog by pushing the boundaries of innovation to strengthen the link between pet health and nutrition. Royal Canin offers 200 specific cat and dog formulas based on size, age, breed, lifestyle and special needs. Stop by our booth and see the “NEXT GENERATION” of new formulas.

**Seroclinix Corporation**

Seroclinix is focused on specialized laboratory services for animal health, wellness and reproduction. Our labs employ the latest technology found in clinical reference laboratories to achieve the highest degree of precision and accuracy.

Together with our partners’ PharosDX and AccuLab, Seroclinix provides a convenient, cost-effective lab service across the US and Canada that delivers the most reliable results to help our customers diagnose and treat patients. By combining our experience and technical expertise in Clinical Reference Laboratories, we can support our customers with leading edge animal testing solutions.

**SonoSite, A Fujifilm Company**

From behind-the-scenes experimental work for the U.S. Department of Defense to today’s highly advanced ultrasound systems used around the globe; SonoSite has been defining and redefining next-generation point-of-care ultrasound. Musculoskeletal, internal medicine and reproductive transducers with specialized software that can meet all of your practice needs.

**ServetUSA**

Servet publishes about twenty technical books annually, with the collaboration of the most distinguished professionals. The books published by Servet are considered the best reference books for veterinarians worldwide.

Servet offers specialized books with a unique design. While Servet books are beautiful to look at, they are also accurate. All work is submitted to a

*(continued on following page)*
technical and thorough process of revision, checking and analysis. Servet works with the most internationally renowned authors who specialize in the topics most demanded by vets. Browse our complete Servet books and feel free to contact us with any questions you may have.

**Spectrum Labs**

Spectrum Labs, one of the leading allergy testing laboratories, is also the importer of the OM3 Gold products from Brazil. Containing some of the highest concentrations of Omega 3 and Omega 6 fatty acids, this supplement will: increase the spermatic motility, the density, the number of healthy sperm produced, and will reduce prevent the degenerative abnormalities that sperm can suffer.

**Tosoh Bioscience, Inc.**

Tosoh Bioscience, Inc., based in South San Francisco, CA is a U.S. subsidiary of Tosoh Corporation’s Bioscience Division, headquartered in Tokyo, Japan. Established in the United States in 1989, Tosoh Bioscience has become known throughout the Americas for providing sophisticated diagnostic systems to doctor’s offices, hospitals, reference laboratories, and veterinary practices. Tosoh’s versatile analyzers include the AIA-360 for low volume testing and the AIA-900 for mid-high volume laboratories. All AIA analyzers utilize the Unit Dose Test Cup reagent format.

**Universal Imaging**

Ultrasound and Digital Radiography Equine Veterinary Solutions – Universal Imaging has been setting the standard for veterinary imaging for over 37 years. Over 16,000 veterinarians have trusted us to supply superior imaging diagnostic equipment and training. Universal Imaging offers the largest variety of ultrasound and digital radiography packages featuring all-digital technology, portability, veterinary-specific applications, complete connectivity and PACS. Our technology partners include Toshiba, Exago, Fuji, Canon and SonoScape. Universal is proud to be named both Canon and 58 Dealers of the Year. Visit our booth or website to learn how we can help you provide the best veterinary care. www.universalimaginginc.com

**Vetoquinol USA**

Vétoquinol is a family-owned, independent company devoted exclusively to animal health. Our product portfolio is divided between livestock and companion animals with a wide range of products. Vétoquinol trades throughout Europe, the Americas, Africa, the Middle East and Asia Pacific.

**Zoetis**

Zoetis (zÅ-EH-tis) is the leading animal health company, dedicated to supporting its customers and their businesses. Building on more than 60 years of experience in animal health, Zoetis discovers, develops, manufactures and markets veterinary vaccines and medicines, complemented by diagnostic products and genetic tests and supported by a range of services.

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**July 31, 2016**

**Therio group rafting trip**

This is one of the favorite activities for those visiting the Western North Carolina Mountains. No other sport combines teamwork, fun and outdoor adventure like a trip down the river. If you are looking for a scenic and exhilarating adventure, this is the trip for you! The river boasts Class I – II rapids for the half-day tour and for the full-day tour you can eat lunch on the river and enjoy a Class IV rapid at the very end! Children must be eight years old to participate (parent or guardian will be required to sign waivers for youths under the age of 18 years). Your tour includes luxury motor coach transportation, Accents on Asheville coordination, professional guide, deli lunch on the river, safety briefing, PFD and all equipment, taxes and gratuity. Visit the registration desk if you are interested in joining us.

**Full day** - Cost is $145 per person with lunch on the river and Class I-IV rapids (9:00 AM – 3:30 PM approx)

**Half-day** - Cost is $129 per person with lunch on the river and Class I-III rapids (9:00 AM – 2:00 PM approx)

**Itinerary**

8:45 AM  Transportation arrives at the Omni Grove Park Inn, Vanderbilt Wing Atrium, 7th level
9:00 AM  Depart for transportation to White Water River Rafters Outpost
9:40 AM  Approximate time of arrival at the River Outpost
9:40 AM  Approximate time of completion of rafting trip
1:00 PM  Depart Outpost for return transportation to Omni Grove Park Inn (Half-day trip)
2:45 PM  Approximate time of departure from Outpost for return to Omni Grove Park Inn (Full-day trip)
2:00 PM  Approximate time of return to the Omni Grove Park Inn (Half-day trip)
3:30 PM  Approximate time of return to the Omni Grove Park Inn (Full-day trip).
SAVE THE DATE! AUGUST 2 - 5, 2017!

Make plans now to join us for next year’s Therio Conference in beautiful Ft. Collins, CO.

A day in Fort Collins can be filled with lots of things to do and see. Get a feel for settler life in the well-preserved Old Town, which is designated both a national and local-historic district with 28 historical buildings.

Fort Collins continues to rate highly on lists of towns that offer exceptional outdoor adventures and access to excellent recreational facilities. Pick a spot to relax in one of the city’s 50 parks, or head out on some of the 280-plus miles of trails, including paved and unpaved walking and biking trails. Fort Collins is also home to four recreation centers and swimming pools, three public golf courses, a racquet sport complex and numerous other facilities. Take to the water and cool off on a paddle board, in a kayak or enjoy a whitewater rafting adventure.

Enjoy the 2017 Therio Conference at the fabulous Hilton in Ft. Collins. The 2017 conference will focus on the Equine Program, along with Small Animal, Food and Fiber, and Production Animal tracks. Make plans to join us next year in this fabulous setting.

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Theriogenologist of the Year
Sponsored by Universal Imaging

Dr. Richard Hopper
Dr. Richard Hopper received his DVM from Auburn University in 1978. He then operated a private mixed practice for 15 years in Oneonta, Alabama before joining the faculty at Mississippi State University CVM in 1993 as Assistant Professor. He achieved Diplomate status in the American College of Theriogenologists via the alternate route in 1995. Dr. Hopper is currently Professor and Program Leader of the Food Animal Medicine, Theriogenology, & Ambulatory Section at the CVM. He has served as President of both the Mississippi VMA and the Society for Theriogenology. He was named Veterinarian of the Year for Mississippi in 2008 and received the El Toro Award for Excellence in Food Animal Medicine from the Auburn University CVM in 2014.

Dr. Hopper has contributed nearly 40 years of professional career service in the area of reproductive veterinary medicine. He was pivotal in establishing the theriogenology section at Mississippi State University, which has grown to have a substantial multispecies caseload and has maintained a successful resident training program. He has been a requested speaker on theriogenology topics at numerous meetings across the U.S., including the annual Therio Conference. Dr. Hopper has contributed to numerous publications in lay as well as veterinary literature. Most notably, he assembled 98 scholars internationally as lead editor for the book "Bovine Reproduction" (Wiley-Blackwell; November 2014). He has made tremendous contributions to the college and animal owners of the state through extension veterinary medicine, as well as in the clinical arena of the college. Dr. Hopper has mentored several into membership in the ACT and continues to guide and teach while promoting the importance of theriogenology.

Dr. Dickson Varner
Dr. Dickson Varner received his DVM Degree from the University of Missouri (1978) and master’s degree from Texas A&M University (1990). Following graduation from the veterinary school, Dr. Varner was employed by Castleton Farms in Lexington, Kentucky for three years. He then completed a residency in theriogenology at the University of Pennsylvania and served as a lecturer in large animal reproduction at the same institution until 1985. Dr. Varner has been on the faculty at Texas A&M University since 1986, where he is presently Professor of Theriogenology and Pin Oak Stud Chair of Stallion Reproductive Studies. He is also a Diplomate of the American College of Theriogenologists (1984). Since earning his Diplomate status, he has been heavily involved with the ACT having served as the examination committee chair and as the College’s Secretary (1992-1994) and President (1999).

Dr. Varner has been a leader in stallion reproduction for over 30 years, traveling throughout the world evaluating and treating fertility problems in stallion. His primary research interests are in the areas of semen preservation, testicular function, and subfertility in stallions. He has developed several clinical applications in examining and preserving sperm. Dr. Varner played a pivotal role starting the stallion reproductive studies program at Texas A&M University CVM and his innovative research has helped position the CVM as one of the top research and clinical facilities for stallion reproduction in the world. In 2002, he was honored by the ACT as the Theriogenologist of the Year recognizing his outstanding achievement in the field of animal reproduction research.

Dr. David E. Bartlett Award for Lifetime Achievement in Theriogenology

Congratulations!

TF Sympathy cards now available

Three versions of sympathy cards are now available for purchase at the Therio Conference registration desk or through the TF website online store (under the Giving tab) at www.theriofoundation.org. Packets of 10 cards and envelopes can be purchased for $100. All proceeds benefit the Theriogenology Foundation.

Small animal sympathy card
Inside message reads, "Our sweet animal friends enrich our lives, and leave us better than before. Forever in your heart will remain the good times you enjoyed with your beloved pet. Our sympathy is with you in your loss."

Equine sympathy card
Inside message reads, “Our sweet animal friends enrich our lives, and leave us better than before. Forever in your heart will remain the good times you enjoyed with your beloved pet. Our sympathy is with you in your loss.”

Bovine sympathy card
Inside message reads, “In your time of loss, we would like to extend our sympathy and understanding.”