



AMERICAN COLLEGE  
OF THERIOGENOLOGISTS

# Newsletter

Spring 2015



## Reminder

Ballot deadline is June 30

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[VOTE Now!](#)

[Therio Conference news](#)



### From the President

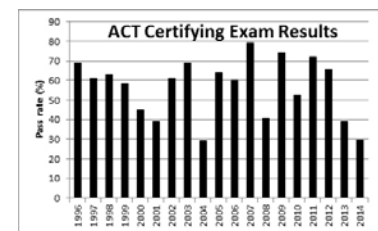
Dear ACT Diplomates:

The Executive Board met in San Antonio in January 2015 for the midway meeting at the Hyatt Regency which will be the conference hotel for the 2015 Annual Meeting. The hotel presents a nice venue on the San Antonio river walk with lots of dining and entertainment close by. It should be great spot for our meeting in August.

Currently, the membership of the College consists of 473 members; 384 active diplomates, 67 emeritus diplomates, and 22 honorary members, and of the 384 members who pay dues, 367 have paid as of May 10, 2015. If you have not yet done so, please remit your dues which can be paid directly on the ACT website ([www.theriogenology.org](http://www.theriogenology.org)). The College finances continue to be relatively robust although we anticipate some new recurring costs related to management fees and support for the Theriogenology Foundation. In reviewing the costs for administration of the certifying examination since 2009, it is apparent that application and examination fees for the exam do not cover the expenses of administering the examination. The Executive Board will review these fees at our next meeting, but it is likely that fees for

the application and examination will increase. In 2014, you will recall that the College initiated the use of online balloting to conduct business and elections in the College. With this new balloting system, notifications of elections will be sent by email with instructions on how to access the online balloting system. I urge you to respond to these email requests and use the online balloting system so that we can have widespread representation of the College in conducting the business and affairs of the ACT.

A total of 21 new candidates were approved to take the certifying examination in San Antonio in 2015. There has been some concerns expressed about the apparently low pass rate for the certifying examination for 2013 (39%) and 2014 (30%). This compares to an historical pass rate of 56.4% during the period of 1996-2014 (Figure). Because the sample size (approximately 20-25 examinees each year) is small, it is difficult to generate meaningful statistics concerning these data. However, there are no significant trends across time to indicate anything other than normal variability in outcomes.



(Data courtesy of Dr. Reed Holyoak).

As I noted in the Fall newsletter, the Theriogenology Foundation has significantly increased their activities during the past year with the establishment of the American Kennel Club/Theriogenology Foundation Companion Animal Residency in Theriogenology at the University of California-Davis, Auburn

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President *continued from p.1*

University and University of Pennsylvania. These three residencies are supported by a generous grant from the AKC. Discussions are currently underway with the AKC concerning a possible expansion of these residency programs. The TF continues to support student outreach and travel as well as research grants in a number of species. Please encourage trainees (both DVM students and residents) to visit the TF website to learn more about the opportunities that exist to support outside speakers, travel to the Theriogenology Annual Conference as well as student externships. The continued support of the TF by members of the ACT and the Society for Theriogenology through the charity auction, raffle, donations and planned giving is a critical component for the TF in supporting its mission of advancing the science and practice of Theriogenology. For more details please see the TF website (<http://www.theriofoundation.org/>).

As always, the Executive Board wants feedback from the membership about concerns related to the College and its activities. Please feel free to email me ([b.a.ball@uky.edu](mailto:b.a.ball@uky.edu)) if you wish to communicate any items to the Board.

We look forward to seeing you at the Annual Conference in San Antonio on August 5 – 8, 2015!

Barry A. Ball

ACT President

### In Memoriam

The American College of Theriogenologists fondly remembers the following members and Diplomates that have passed away since the 2014 spring newsletter:

**Dr. Patrick Concannon**

February 23, 2015  
Honorary Member

**Dr. Bob Carson**

March 21, 2015

**Dr. Stanley Dennis**

April 1, 2015  
Emeritus Diplomate and Past-president

# Welcome to the Class of 2014 Diplomates!

Drs. Todd Anderson, Jennifer Clulow, Hilari French, Reto Fritsche, Justin McNaughten, Tracy Plough and Robert Stawicki. 2014 Exam Statistics: If you would like more information and statistics from the certifying exam data, please visit the ACT web site and follow the link "Becoming a Diplomate".

Species	Sat the exam	Passed the exam
Multi-species	15	5
Equine	9	3
Bovine	0	0
Companion Animal	3	0
<b>TOTAL</b>	<b>27</b>	<b>8 (30%)</b>

Route	Sat the exam	Passed the exam
Standard	19	5
Alternate	8	3
<b>TOTAL</b>	<b>27</b>	<b>8</b>

COUNTRY	ACTIVE	EMERITUS	HONORARY	TOTAL
	DIPLOMATE	DIPLOMATE	MEMBER	
Argentina	1			1
Australia	20			20
Brazil	1			1
Canada	42	6	1	49
Colombia	3			3
Denmark	1			1
France	2			2
Germany	2			2
Grenada	1			1
Israel	2			2
Italy	1			1
Jordan	3			3
Malaysia	1			1
Mexico	1			1
Netherlands	1		1	2
New Zealand	5	1		6
South Africa	7			7
Spain	1			1
Sweden	0		1	1
United Kingdom	2		1	3
United States	286	59	18	363
Venezuela	0	1		1
West Indies	1			1
<b>TOTALS</b>	<b>384</b>	<b>67</b>	<b>22</b>	<b>473</b>

#### Breakdown by Employment Type:

Academia	173
Government	12
Industry	24
Private Practice	131
Retired	32
Other	76
Honorary	22
Inactive	3



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## 2015 Scientific Information/Abstract Committee Report

The committee was pleased at the number and quality of abstracts submitted for this year's conference. Sixty-two abstracts were submitted to the Scientific Abstract Committee. They consisted of the following categories:

- 33 Competitive Abstracts
- 20 Non-competitive Abstracts
- 6 Case Report Abstracts
- 3 Poster Abstracts

The members of the committee who scored the abstracts were Sandra Ayres, Igor Frederico Canisso, Fernando Campos-Chillon, Sherrie Clark Deener, Maria Soledad Ferrer, and Ram Kasimanickam. Abstracts were reviewed anonymously by each member of the committee. Committee members with a conflict of interest for a particular abstract did not participate in scoring of that abstract. Highest scoring abstracts were selected for presentations.

After abstracts were evaluated and ranked by the committee, the following sessions were organized. Because of the large number of high quality abstracts, an additional food animal/equine session was requested.

- Opening Session: 8 Abstracts
- Competitive Session: 8 Abstracts
- Equine Session: 8 abstracts
- Large Animal Session: 8 Abstracts
- Small Animal Session\*: 6- 8 Abstracts
- Large Animal/Equine Session: 8 Abstracts
- Poster Session: 8 abstracts

\* The authors of two small animal poster submissions are being asked if they would like to present their abstracts as part of the small animal session.

Notifications have been sent to all authors. Once authors have verified that they will attend the meeting and give their presentations, committee members will edit all abstracts. Edited abstracts will be submitted to Dr. Younquist for inclusion in Clinical Theriogenology.

Two new members have been selected for next year. They are Celina Checurea - New ad-hoc member, and Carlos Pinto – New full member.

I would like to thank everyone in the Scientific Abstract Committee for all their dedication and effort in preparing a high-quality scientific program for the 2015 meeting. Special thanks go to Dr. Charles Franz and Roberta Norris of Franz Management for their continuous support!

In addition, we would like to thank all the authors and their colleagues who took the time and effort to send us their abstracts. These sessions could not happen without the science and medicine that goes into every abstract.

Many thanks,

Sandra L. Ayres

Scientific Information/Abstract Committee Chair

## 2015 Certifying Exam Committee Report

The ACT Certifying Exam Committee met in St. Augustine Beach, Florida, from January 6-10, 2015. The members in attendance were: Leo Brito, Past Chair; Kara Kolster, Chair; Marco Coutinho da Silva, Vice Chair; Reed Holyoak, ACT Secretary; Michelle Kutzler, Carlos Risco, and Patricia Sertich.

The review of questions began the first afternoon of our meeting. Much effort was spent editing and refining questions to assure clarity, up-to-date responses and references, and coverage of relevant learning objectives. Time was also spent ensuring that the test was equitably constructed in regard to species distribution. After review of every multiple choice, essay, and practical exam question, the pass point was assigned.

The new web-based Test Development Center (TDC) system from Schroeder Management Technologies was used for constructing this year's exam. Committee members agreed that this system was much more user-friendly and efficient than the previous SMT software. There were a few small hiccups but overall the transition to this new system was smooth and we expect to explore and utilize more of the TDC's features in the future. The TDC has the capability to be used for computerized examination and statistical analysis of exam question performance.

The "Preparing for the Certifying Examination" document was updated and has been posted in the "Becoming a Diplomate" section of the ACT website. There will be a meeting scheduled in San Antonio between the committee and candidate mentors to discuss candidate preparation for the exam.

Maintaining a bank of up-to-date and relevant questions of appropriate difficulty level is a constant challenge for the committee. The response to our annual question drive is weak, and candidates no longer submit questions with their credentialing packets. Since the annual proceedings are a suggested reference for candidates, the committee proposed that conference presenters submitting proceedings include an exam question based on their work.

Regarding the species-specific portions of the exam, the committee again proposed that candidates declare their species selection prior to the committee's January meeting. Based on the results of the job task analysis, the challenge of ensuring the presence of a true specialist in each field on the committee, and the historical use of species options by candidates, the porcine exam in particular is not routinely updated. Knowing in advance of the January meeting if there are any porcine candidates would allow the best use of the committee's time and energy in developing a currently relevant porcine exam.

Dr. Leo Brito is finishing his term and will be leaving the committee this year. We are grateful for his years of service, expertise, and attention to detail. The newest member of our committee is Dr. Brian Whitlock, whose term will begin immediately following the annual conference.

The 2015 Certifying Exam will be given on August 4-5, 2015, prior to the SFT/ACT Annual Conference in San Antonio, TX.

Sincerely,

Kara A. Kolster

ACT Certifying Examination Committee Chair

## Dr. Rob Gilbert 2015 Theriogenologist of the Year

sponsored by *Universal Imaging*



Rob Gilbert was born and reared in South Africa, where he completed his veterinary degree in 1977 and entered first a rural mixed practice and then a predominantly equine practice before joining an artificial insemination corporation, where he worked for three years. He then returned to the Faculty of Veterinary Science of the University of Pretoria (at Onderstepoort) to specialize in

theriogenology. These were exciting days, in the relatively early history of embryo transfer and the initial adaptation of ultrasonography to veterinary practice. In 1984 he took his wife and toddler son to Madison, Wisconsin, where he had been accepted into a theriogenology residency program, during which his second child, a daughter was born. After that he returned to South Africa, to a faculty position at Onderstepoort. It wasn't long before the combination of a worsening political position in South Africa and the lure of academic opportunity tempted him to apply for a faculty position at Cornell University, where he has been since 1988.

Dr. Gilbert is a devotee of comparative reproductive studies, believing that insight into mechanisms and reproductive strategies of one species illuminates these processes in less-studied species and allows greater understanding and more rapid advance. In that vein, he has published original observations related to dogs, cats, sheep, goats, beef and dairy cattle, horses, non-domestic species and on human reproductive conditions. He is probably best known, however, for his work on postpartum uterine disease in dairy cows. Stemming from days in private practice, he was perplexed by endometritis – how was it best diagnosed and treated, and was it even a problem? In 1992 he wrote an editorial pleading for a more scientific approach to the study of endometritis and a few years later pioneered the large scale use of endometrial cytology in cows for diagnosis of endometritis, proving that the condition was highly prevalent and severely detrimental to reproductive performance, even in relatively mild form. This opened up a field of investigation which remains very active. Dr. Gilbert's investigations have added to knowledge of epidemiology and pathogenesis of uterine disease, culminating in development of a vaccine against metritis, currently in trials. More recently his attention has been focused on resumption of postpartum ovarian activity, uterine effects on ovarian function, and endocrine factors affecting oocyte competence as well as the potential for genomic selection for fertility in dairy cows. He continues to indulge his interest in comparative theriogenology by working on funded projects in equine reproduction, and by enjoying clinical work in all species.

Dr. Gilbert lives with his wife in Ithaca, New York. They have two adult children.

## Nominees for Officers and Directors of the College - **Vote Now!**

The newly elected vice-president will assume the offices of president-elect and president in 2016 and 2017, respectively. Beginning 2014, the decision was made by the ACT Board of Directors to initiate online voting. Please **complete the ballot [at this link](#)** by **June 30, 2015**. You will be asked to login to the ACT website and will be allowed to vote one time only. Your vote is completely confidential. If you have any questions, please feel free to contact the ACT office at 334-395-4666. **Vote today at <http://www.theriogenology.org/surveys/?id=2015> [Ballot](#).**

### Vice President:

**John P. Kastelic** - Dr. Kastelic was raised on a cattle farm (dairy and later beef) near Edmonton, Alberta, Canada and received his DVM (U.



Saskatchewan) in 1982. After two years in private veterinary practice, he spent one year in a clinical theriogenology residency (U. Saskatchewan) and then five years at the University of Wisconsin-Madison (with Prof. OJ Ginther). Dr. Kastelic's thesis work was entirely in the female (primarily heifers and one mare study), with an emphasis on embryonic development and loss, and ovarian function. Thereafter, he spent nearly 22 years as a research scientist

at the Lethbridge Research Centre (Canadian counterpart of USDA), working primarily with cattle, with an emphasis on synchronization of estrus and ovulation in heifers, and in bulls, scrotal/testicular thermoregulation, breeding soundness evaluation, and the effects of nutrition on reproductive development. Kastelic joined the University of Calgary, Faculty of Veterinary Medicine in late 2012 and is currently Professor of Theriogenology and Head of the Department of Production Animal Health. He has authored or co-authored approximately 170 peer-reviewed papers, more than 200 abstracts, proceedings articles and reports, and three book chapters. Kastelic became a Diplomate of the ACT in 1994 and served on the Examination Committee (2001-8). He was designated Theriogenologist of the Year (2009) and received the Merck Veterinary Award (Large Animal Practice) in 2013. He served as Co-Editor-in-Chief of the journal *Theriogenology* from 2003 to 2013, received approximately 3000 papers, sent most of those to review (found reviewers), made decisions regarding acceptability, and ultimately edited approximately 1500 papers prior to publication. He has delivered presentations and workshops on animal reproduction, science, and scientific writing, in 15 countries on five continents. Dr. Kastelic is enormously grateful for the amazing opportunities he has experienced (which have greatly exceeded his expectations). Kastelic says his true passion is to help others conduct and communicate good science.

### Executive Board Member Director-At-Large:

**Sherri G. Clark** - Dr. Clark received her Doctor of Veterinary Medicine degree at Virginia-Maryland Regional College of Veterinary Medicine (VMRCVM) in 1996. She completed a residency in Theriogenology

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at the University of Illinois in 1999. During her residency, she was enrolled in the Executive Veterinary Program (EVP) in Swine Health Management at the University of Illinois. This certification was completed in 1998. Dr. Clark then embarked on a joint PhD program as a practicing veterinarian for the Department of Veterinary Clinical Medicine while pursuing a PhD in reproductive physiology in the Department of Animal Sciences. She completed her PhD and completed her board certification in theriogenology in 2003. She was on faculty at the University of Illinois from 2003-2011 in the Rural Animal Health Management section and returned to the VMRCVM as one of the theriogenologists on staff.



Dr. Clark has been involved as the principal investigator for research projects involving the usage of chemical contraceptive substances in swine and canine. Additionally, she has investigated bacterial contamination of semen and conditions affecting boar fertility. Dr. Clark has been extensively involved in biomedical projects using swine as models for human conditions and regenerative medicine.

She remains active in several professional organizations and has been a member of the ACT Certifying Examination Committee (2007-2013; Chair 2012) and the ACT Job Task Analysis Committee and is currently an Ad Hoc member of the ACT Scientific Abstract Committee (2013-2015). She has been a Section Editor for abstracts for the annual conference for the International Embryo Transfer Society for several years as well as worked with developing material for web delivery of educational modules. Education of students is her passion! And this spring she was honored to be awarded one of the Outstanding Instructor Awards by the Class of 2017.

**Cathy J. Gartley** - Dr. Gartley graduated with a DVM from the Ontario Veterinary College in 1982 and spent three years in large animal practice, primarily bovine. She earned a DVSc back at the OVC in 1988, obtained her DACT in 1989 and has held various theriogenology positions at the OVC since then, initially research-oriented for a year followed by 13 years as a clinical instructor and the last 13 as a faculty member. Dr. Gartley's DVSc research was in sheep embryo bisection and cryopreservation. She also had the opportunity to perform theriogenology work at the Toronto Zoo, initially with embryos in Dall's sheep, then, over

the last 30 years with semen, artificial insemination and/or embryos in Wood bison, Bactrian camels, cheetahs and giant pandas. Meanwhile her clinical responsibilities have changed from primarily ruminant and equine to primarily small animals. Being a theriogenologist has opened up areas in disciplines requiring reproductive knowledge such as embryonic stem cells; early pregnancy diagnosis; gene



therapy; drug effects on semen, pregnancy and lactation; infectious causes of pregnancy wastage; nutritional effects on reproduction, etc. She is an avid comparative theriogenologist, but would have to say that her comfort is primarily canine.

Dr. Gartley has been fortunate to have amazing mentors such as DACT's Brian Buckrell and Walter Johnson and many residents, undergraduate veterinarians and clients that have challenged her "stubborn dogma" (in her words), and brought lots of fun to being a theriogenologist. Over these many years, she has served a term on the Society for Theriogenology Board and the Found Animals research board. Gartley works with a local Dog Guide group that lets her continue minimally invasive canine research into fetal readiness for birth and hemostasis in breeding bitches. She is an enthusiastic supporter of the necessity for our specialty in the veterinary curriculum and society at large.

**Milan Hess** - Dr. Milan Hess attended Colorado State University for both undergraduate and veterinary school. She then completed an



internship in small animal medicine, surgery and critical care at Alameda East Veterinary Hospital in Denver. Dr. Hess completed a three year residency in theriogenology at Virginia Tech. and joined Colorado Veterinary Specialists as a small animal reproductive specialist in 2002. She became the owner of Colorado Veterinary Specialists & Animal ER in 2012.

Dr. Hess is a member of the American Kennel Club's Canine Health Foundation Grants Committee and serves as a theriogenology consultant for the Veterinary Information Network. She has served on the Training/Credentialing Committee for the American College of Theriogenologists (ACT) and actively mentors veterinarians in pursuit of board certification with the ACT. Dr. Hess is the occasional author of book chapters and journal articles in the field of small animal reproduction and works with the local veterinary medical association to produce podcasts on reproduction topics. Her specific area of interest is high risk pregnancy management in the bitch.

## Call for Nominations for 2016 Theriogenologist of the Year

Nomination due date - **November 13, 2015.**

The American College of Theriogenologists is seeking nominations for "Theriogenologist of the Year," an award which recognizes a theriogenologist for recent, outstanding contribution(s) to the discipline of theriogenology.

The award is accompanied by a plaque and monetary honorarium of \$1,500. Nomination form is available online at <http://www.theriogenology.org/?page=TOYNomination> or call the office for a form at 334.395.4666.

# 2015 Therio Conference Special Events

Opening Session Abstracts

Opening Session Reception

ACT Educator's Forum sponsored by the  
**Theriogenology Foundation**

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

Theriogenologist of the Year Award  
sponsored by **Universal Imaging**

Dr. Jerry Rains Memorial Abstract Competition  
sponsored by **Merck Animal Health**

SFT Business Meeting

ACT Business Meeting

Student Case Presentations

Student/Mentor Reception sponsored by  
**Hagyard Equine Medical Institute**

Exhibit Hall Opening Reception

Theriogenology Foundation Craft Beer Tasting  
sponsored by **Patterson Veterinary Supply**

Student Quiz Bowl sponsored by **Merck Animal Health**

Theriogenology Foundation Silent Auction

Plenary speaker David Hardin, BS, DVM, DACT

Plenary speaker D. Kirk Eddleman, MHA

Annual Awards Dinner Reception

Annual Awards Dinner  
sponsored by **Merck Animal Health**

Dr. John Steiner Award for Practitioner Excellence

Theriogenology Foundation Live Auction

Canine ultrasound wet lab seminars  
sponsored by **Universal Imaging**

Offsite production animal wet lab symposium  
New methods to market theriogenology in production  
medicine supported by  
**SonoSite, a FujiFilm company and Jorgensen Labs**

# 2015 Therio Conference Schedule

## Small animal sessions:

### Track I

#### Friday, August 7, 2015

Principles of evidence based medicine. Brennen McKenzie, MA, VMD

Application of evidence based medicine. . . . Melissa Goodman, DVM

Comparative semen evaluation using automated and manual  
counting. . . . . Greg Burns, DVM

#### Saturday, August 8, 2015

Sperm morphological defects in dogs: Causes and consequences  
. . . . . Vanmathy Kasimanickam, DVM, MS

Reproductive pathology: What's love got to do with it? Part I  
. . . . . Catherine Lamm, DVM, MRCVS, DACVP

**sponsored by IDEXX**

Reproductive pathology: What's love got to do with it? Part II  
. . . . . Catherine Lamm, DVM, MRCVS, DACVP

**sponsored by IDEXX**

Dewar maintenance and international shipping. . . . . Kim Hesler

Tickborne and other stealth pathogen reproductive concerns Part I  
. . . . . Meryl Littman, VMD, DACVIM

Tickborne and other stealth pathogen reproductive concerns Part II  
. . . . . Meryl Littman, VMD, DACVIM

Genetic counseling for inherited kidney and urinary tract diseases  
. . . . . Meryl Littman, VMD, DACVIM

### Track II

#### Friday, August 7, 2015

Diagnostic approaches to assessing reproductive tract health  
(pre-breeding assessment) and infectious infertility in the canine  
population . . . . . Patrick McDonough, MS, PhD

Canine brucellosis: Current situation and diagnostic approaches  
. . . . . Patrick McDonough, MS, PhD

Comparative progesterone testing  
. . . . . Natalie Fraser, DVM, Auburn University AKC-TF resident

#### Saturday, August 8, 2015

Reproductive ultrasound I. . . . . Rachel Pollard, DVM, PhD

Reproductive ultrasound II. . . . . Rachel Pollard, DVM, PhD

## ACT educator's forum:

### Wednesday, August 5, 2015

#### sponsored by the Theriogenology Foundation

Ideas for clinical teaching – learn alternative techniques for teaching  
in the clinics! . . . . . Peggy Root Kustritz, DVM, PhD, DACT  
. . . . . and Walter Threlfall, DVM, MS, PhD, DACT

Outcomes assessments . . . . . John Dascanio, VMD, DACT, ABVP

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# 2015 Therio Conference Schedule continued

Pre-registration savings expires June 19, 2015

## Production animal sessions:

### Friday, August 7, 2015

A review & update of research on pregnancy associated glycoproteins (PAGs) in cattle. . . . . Mr. Ky Pohler

Application of PAGs to improve reproduction efficiency in cattle . . . . . Mr. Ky Pohler

Applying ultrasonographic evaluation of antral follicle count & reproductive tract development to improve reproductive management in heifers. . . . . Robert Cushman, PhD

### Saturday, August 8, 2015

Basic mechanisms influencing establishment of the ovarian reserve and development in reproductive tracts in heifers . . . . . Robert Cushman, PhD

The effects of stressors on the reproductive axis/system of cattle . . . . . Jeff Carroll, PhD

Methods of assessing the stress level of cattle in order to bring about positive changes in reproduction. . . . . Jeff Carroll, PhD

Bull diagnostics . . . . . Dwight Wolfe, DVM, MS, DACT

BSE/eBSE and lameness . . . . . Chance Armstrong, DVM . . . . . and Jennifer Koziol, DVM

Trichomoniasis. . . . . Misty Edmondson, DVM, MS, DACT

Sperm cell abnormalities/semen evaluation . . . . . Richard Hopper, DVM, DACT

## Canine ultrasound wet lab seminars:

### Saturday, August 8, 2015

sponsored by Universal Imaging

. . . . . Rachel Pollard, DVM, PhD

The Canine Ultrasound Wet Lab Seminar will be offered at three different times, a morning and two afternoon sessions. There is a limit of 10 attendees per session so register early to secure your seat.

Ultrasound is a standard of practice today, particularly when evaluating the reproductive tract. This two hour hands-on laboratory session will introduce you to the equipment and prepare you to find the most important reproductive anatomy using live intact male and female dogs. You will gain valuable skills under expert tutoring with a student-to-instructor ratio of 5:1. Students can expect to scan at least four different dogs during the laboratory session in order to understand inter-animal variability and gain the most possible experience. Normal and abnormal imaging characteristics will be discussed.

**Don't forget to vote for your new officers and directors.**  
[Click to Vote NOW!](#)

## Equine sessions:

### Friday, August 7, 2015

The business side of equine reproduction I. . . D. Kirk Eddleman, MHA

The business side of equine reproduction II . . D. Kirk Eddleman, MHA

Current topics: A review of recent articles . . . Heath King, DVM, DACT . . . . . Peter Sheerin, DVM, DACT

### Saturday, August 8, 2015

Protecting your investment: Infectious disease and parasite control for the broodmare and foal I. . . . . Wendy E. Vaala, VMD, DACVIM

Protecting your investment: Infectious disease and parasite control for the broodmare and foal II . . . . . Wendy E. Vaala, VMD, DACVIM

Protecting your investment – Nutrition for the broodmare . . . . . Megan Shepherd, DVM, PhD, DACVN

Protecting your investment – Nutrition for the foal . . . . . Megan Shepherd, DVM, PhD, DACVN

Epigenetics and fetal programming: what do we know? . . . . . Carey Satterfield, BS, MS, PhD

Minimizing developmental orthopedic disease and limb deformities in foals. . . . . Mary Beth Stanton, DVM, DACT

Feeding and supplementing the stallion for maximum fertility . . . . . Steven Brinsko, DVM, PhD, DACT

## Production animal wet lab symposium:

### Sunday, August 9, 2015, Offsite

supported by SonoSite, a FujiFilm company and Jorgensen Labs

New methods to market theriogenology in production medicine

A one-day symposium to help you improve the bottom line of your practice by updating your production animal opportunities.

This symposium is open to any veterinarian who works with herd animals. During the day's activities you will learn through lecture and hands on experience about:

Different procedures for bull diagnostics (testicular ultrasound, trich testing, pudendal nerve block, etc.); Breeding Soundness Examination including the use of the electronic BSE; Small ruminant BSE and various clinical procedures demonstrated (hoof trimming, dehorning); Heifer selection and development (pelvic measurement, tract scoring, body condition scoring, etc.); Microscopic semen evaluation (fresh and frozen) including morphologic discussion, assessing sperm cell concentration; and Heifer disposition evaluation.

Welcome and Introduction . . . . . Gary Warner, DVM

Reproductive diagnostic procedures and treatment in the bull . . . . . Dwight Wolfe, DVM, MS, DACT, . . . . . Misty Edmondson, DVM, MS, DACT and Chance Armstrong, DVM

Veterinary bull breeding soundness . . . . . James H. Alexander, DVM

Morphology and the VBSE. . . . . Richard Hopper, DVM, DACT

Electronic BSE. . . . . John Myers, DVM, DACT

# 2015 Abstracts

## August 5, 2015 Opening Session Abstracts

- Lisa K. Pearson, DVM, MS, DACT .....Granulosa-theca cell tumor in a dairy doe: endocrinology and surgical treatment
- Mariana Diel de Amorim, DVM, DVSc, DACT .....Progesterone levels at the expected time of luteolysis in diestrus, pregnant, carbetocin and oxytocin treated mares
- Felipe Farias Pereira Camara Barros, Med Vet, MS ..In vitro maturation of goat oocytes recovered during the non-breeding season
- Lisa K. Pearson, DVM, MS, DACT .....XX/XY chimerism in an infertile female alpaca born as a singleton cria
- Maria Soledad Ferrer, DVM, MS, DACT .....Sperm-bound antisperm antibodies affect the oviductal binding index of bovine spermatozoa
- Jamie L. Stewart, DVM .....A comparison of different extenders for cryopreservation of semen in white-tailed deer
- Soon Hon Cheong, DVM, PhD .....Parturition augmentation in mares – efficacy and safety
- Fernando J Peña DVM, PhD, DECAR .....8 ISO prostaglandin F2a is produced during in vitro incubation of stallion spermatozoa and correlates with sperm death

## August 6, 2015 Competitive Session

- Katherine Rhodes-Long, BS .....Lipid content and cryopreservation of Jersey cattle embryos
- Robyn Ellerbrock, DVM .....Diagnosis and effects of urine contamination on stallion semen cooling
- Seth Bynum, BS .....Circulating miRNAs and associated gene regulations in puerperal metritis in dairy cows
- Carolynne Jane Tarr, BSc, BVSc, MSc. ....Ovarian function in pony mares undergoing porcine zona pellucida immunocontraception
- Jamie L. Stewart, DVM .....Long-term effects of clinical applications of pyrethrin and cyfluthrin, a synthetic pyrethroid, on bull reproductive parameters
- Rachel Shutter, BS .....Seminal plasma mMicroRNAs: potential biomarkers for bull fertility
- Stephanie Schroeder White .....Fertility following two doses of PGF2 $\alpha$  concurrently or at 6-hour interval on the day of CIDR removal in 5-day CO-Synch progesterone-based synchronization protocols in beef heifers
- Ellie Bohrer .....Histologic and morphometric evaluation of testes of feral tom kittens and cats

## August 7, 2015 Equine

- David P. Beehan, MVB, MS, DACT .....Investigation of in vitro conditions required for equine reproductive tract Escherichia coli biofilm formation
- Morgan E. Agnew, VMD .....Pregnancy outcomes in Thoroughbred mares administered different doses of cloprostenol
- Etta Bradecamp, DVM, DACT, ABVP .....Ultrasonographic imaging of cervical defects in two mares with chronic infertility
- Clare Scully, MA, DVM .....Comparison of chemical and surgical vasectomy on testicular activity in free-roaming horses (Equus caballus)
- Justin W. McNaughten, BVMS, DACT .....A novel approach to removing retained fetal membranes in the mare
- Mariana Diel de Amorim, DVM, DVSc, DACT .....Progesterone levels and interovulatory intervals of mares treated with intrauterine fractionated coconut oil
- Kelsey K DiMiceli .....The effect of repeated PGF2 $\alpha$  induced antiluteogenesis in the interovulatory interval of mares
- Margaret S. Bojko.....Progesterone and eCG concentrations in a pregnant mare receiving intrauterine cloprostenol sodium

## August 7, 2015 Food and Fiber Animal

- Michela Ciccarelli, DVM.....Failure of anti-Müllerian hormone to diagnose cryptorchidism in a pot-bellied pig
- Stephanie Schroeder White .....MicroRNAs expression profiling in porcine spermatozoa of different breeds
- Felipe Farias Pereira Camara Barros, Med Vet, MS ..In vitro maturation of Cuniculus paca oocytes recovered by laparoscopic ovum pick-up (lapOPU)
- Ahmed Tibary, DMV,MS, DSc, PhD, DACT .....Cesarean section in camels (Camelus dromedarius): complications and post-surgical fertility
- Alexis Campbell, DVM. ....Pregnancy length, cria birth weight, placental weight, and IgG concentration in Suri alpacas
- Tyler Dohlman, DVM .....Evaluation of novel sampling technique for bovine trichomoniasis (Trichomonas foetus)
- Sandra Ayres, DVM, DACT.....Comparison of estrus, breeding and pregnancy rates in goats during the non-breeding season using a short P4 protocol with and without GnRH or hCG.
- Brittni Jones, BS. ....Prevalence of trichomonas foetus in Tennessee beef bulls



# 2015 Abstracts

## August 7, 2015 Small Animal

- Amber Lengele .....Evaluation of a novel swim-up protocol and protein source on canine sperm progressive motility, concentration and acrosome reaction.
- Reto Fritsche, DVM, DACT .....Concentration dependent effect of prostatic fluid on seminal parameters of cooled canine semen
- C. Scott Bailey, DVM, DACT .....Canine vaginal lactic acid producing bacteria exhibit characteristics which may antagonize common urogenital pathogens
- Andrea Hesser, DVM .....Effect of male age on semen parameters in a purebred dog breeding program with established fertility parameters
- Seth Bynum, BS .....Gene expression of Retinoic Acid receptors in post-natal canine testis
- Ramanathan Kasimanickam, BVSc, DVSc, DACT .....Does cells enrichment influence the gene expression of Sertoli cells, Leydig cells and spermatogonia cells specific markers in canine testis?
- Mary Ricker .....Computer-assisted semen analysis (CASA) to determine sperm concentration: a comparison of slide preparation methods using the Hamilton-Thorne and Minitube programs

## August 7, 2015 Large Animal

- Patrick Brogan, BSc, BVSc .....Using color flow doppler ultrasonography to estimate progesterone concentrations at embryo transfer and during early pregnancy in recipient mares
- Mette Christoffersen, DVM, PhD .....Infectious endometritis is associated with endometrial expression of transforming growth factor- $\beta$  and integrin  $\alpha 5\beta 1$
- S. L. Hill .....Breeding soundness of weaned bull calves treated with bolus injections of trace minerals
- Catalina Cabrera, DVM, MPVM .....The effect of progesterone intravaginal devices (CIDRS), P.G. 600 and ram effect on hastening the onset of cyclicity of transitional targhee ewes
- Kayla Nielsen, BSc .....Tissue oxytocinase activity in mares
- Kathryn Bass .....Evaluation of dexamethasone on fetal maturation and delivery in mares when administered on days 305 to 307 of gestation
- Heidi Joy Fishman, DVM .....Comparison of Monday-Friday 4-day versus 5-day Co-Synch + controlled internal drug release (CIDR) + timed artificial insemination (TAI) protocols in beef heifers
- Dale E. Kelley, MS, PhD .....Uterine and Corpus Luteal Vascular dynamics on day 34 of pregnancy do not differ between dairy cattle which abort or carry pregnancy to term

# 2015 poster session

- Jennifer Pearson, DVM .....Removal of an intrauterine mineralized caruncle from a Holstein cow by colpotomy and hysterotomy
- Bruna da Rosa Curcio, DVM, PhD .....Clinical and metabolic evaluation in hyperlactatemic foals from mares with placentitis
- Chance L. Armstrong, DVM .....The detection of Tritrichomonas Foetus in bovine semen with centrifugation and PCR
- David A. Trundell, DVM, MRCVS .....Pharmacokinetics after intrauterine infusion of ciprofloxacin in the mare
- Hanne Gervi Pedersen, DVM, PhD .....Embryo quality grade and recipient ovulation rate affect pregnancy rates in embryo transfer recipient mares
- Fernanda Maria Pazinato, DVM, Ms .....Non-infectious conditions of placenta in mares and their relation with obstetric and neonatal dates
- Swanand Sathe, BVSc, MVSc, MS, DACT .....Evaluation of salivary progesterone profiles as an indicator of reproductive status in equines
- Leda Maria Costa Pereira, VM, MSc .....Effect of epidermal growth factor supplementation during different culture periods on in vitro maturation of canine oocytes
- Leda Maria Costa Pereira, VM, MSc .....Evaluation of p34cdc2 protein kinase activity during in vitro maturation of canine oocytes

# Theriogenology Foundation 2015 Therio Conference Fundraising Events

## Silent and Live Auctions

The TF Silent Auction will be held in the Exhibit Hall again this year. Books, textbooks, photographs, paintings, gift baskets, jewelry, novelty items, specialty wine and prized one-of-a-kind collectibles can all be found at the Theriogenology Foundation's 7th annual Silent Auction coming up in San Antonio, Texas. Proceeds from the auction will go to benefit students, residents, student chapters and others with travel grants, research projects and outreach.

A live auction will be held immediately following the Awards Dinner on Friday, August 7. People may attend the auction without having attended the dinner. Auction items can include trips, educational experiences, events or even surprise items. Your auctioneer for the evening will be Mr. Ron McDaniel. The Live Auction will be limited to eight items this year - in specified categories. Check the Theriogenology Foundation website for more information.

## Can't make it to the conference? - you can still place a bid on auction items

Take advantage of the online silent bid form for 2015 Auction items. Just visit the Theriogenology Foundation website at [www.theriofoundation.org](http://www.theriofoundation.org) and complete the [sealed bid form](#) on the items you choose. Your silent bid will be presented during the auction and you will be notified if you are the winner.

## Raffle Tickets

How would you like to donate \$100 with the possibility to have your 2016 conference package paid for? Raffle tickets are on sale now to raise money for the Theriogenology Foundation and the winner will receive a free conference registration for 2016 (in Asheville, NC, July 27-30). Three nights of the winner's hotel at the beautiful Grove Park Inn in Asheville will be paid for, along with a travel stipend. Plus the winner will receive one Fun Night ticket and one Awards Dinner ticket. And the investment could be tax deductible. Tickets are available through the [TF website](#), through the Therio Conference office or onsite at the registration desk. Only 100 tickets will be sold, get yours before they disappear!



## Craft beer tasting fund raiser for the Theriogenology Foundation

During the Opening Session in the Exhibit hall on Thursday, August 6, attendees will have the chance to experience some Houston brewed craft beers, and help the Theriogenology Foundation at the same time. For \$40 you will receive four samples of possibly such beers as Hopadillo IPA, Weisse versus Wheat, Weekend Warrior, Sympathy for the Lager or Rodeo Clown Double IPA - or even one of their specialty brews. Once you have sampled and chosen your favorite, you will get a full serving of that beer. The craft beer tasting is sponsored by **Patterson Veterinary Supply**. Get your tickets with your [conference registration](#).



Click the links below for  
2015 Therio Conference news  
and registration information!

[Conference news](#)

[Conference registration](#)

Early bird rates end June 19!

[Hotel registration](#)

Hyatt Regency Riverwalk, San Antonio  
Room reservation cutoff July 6!

[Buy a raffle ticket](#)

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## Theriogenology Foundation auction donations needed!

Have you made a donation yet? Books, textbooks, photographs, paintings, gift baskets, jewelry, novelty items and specialty wine are all great items to donate! Online bidding is available at [www.theriofoundation.org](http://www.theriofoundation.org) for those who cannot attend. Proceeds from the auction will go to benefit students, residents, student chapters and others with travel grants, research projects and outreach.

Deadline for submission of forms, photos and item descriptions is **May 29, 2015**. Submit the [auction donation form](#), [found on the TF website](#) at [www.theriofoundation.org](http://www.theriofoundation.org) along with your 300 dpi high resolution photos. **We will not be accepting silent auction items donations at the conference.** Due to space limitations, photos of larger items will be used and the actual items will be shipped from the donor to the purchaser after the auction. High resolution (**500 kb or larger**) photos must be submitted for all auction items. Contact Roberta Norris at [Roberta@franzmgt.com](mailto:Roberta@franzmgt.com) or 334.395.4666 with questions or for details on coordinating auction items.

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