



# American College of Theriogenologists Newsletter

Spring 2013



## Reminder

Ballot deadline is June 14

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Dear Diplomates,

Greetings to all. I wish to extend my gratitude to all of the Diplomates involved in the business of the American College of Theriogenologists (ACT). The contributions of our different committees are impressive, and special thanks to the members of the Training and Credentialing Committee who have worked very hard on our behalf. Your executive board had their winter meeting in Louisville, Ky. to discuss the ongoing business of the ACT. Highlights include discussions on electronic voting, proposed changes to the General Information Guide and the Job Task Analysis. There has been a need to develop a means to conduct some business of the ACT through electronic voting, therefore, some proposed revisions to some sections of the Constitution and Bylaws were discussed. The results of the on-line survey of the membership conducted this past fall regarding proposed changes to the General Information Guide that were tabled last August, showed that the majority of members were *not* in favor of two of the three proposed changes below:

**1.D.1.c.3** Regarding having two years of Graduate Training Route to change to two years of graduate and an additional two years of clinical training; 42.7% voted yes and 57.3% voted no.

**3.E.1.b.3** Regarding Graduate Training Route

time requirements, in the proposal the time required for the Graduate Training Route doubled; 48.3% yes, and 51.7% voted no.

**2.E.1.b.2** Practice route time requirement 104 weeks of mentored training and an eight-week requirement for theriogenology clinical service under the direct supervision of a Diplomate; 62.9% voted yes, 37.1% no.

The board discussed the on-line survey results and did not support any of the specific changes listed above proposed to the General Information Guide. The final decision on these changes will be made by a vote of the Diplomates in attendance at the Annual Business Meeting this summer. The board felt strongly that the ACT has considerable vulnerability in the fact that it has not been customary to *register Graduate Student Program institutions, nor has there been a process to approve a Graduate Student Program of study*. The board recommended to the Training and Credentialing Committee that they consider registering and approving individual programs of study through a Graduate Program Route, and that a *minimum case exposure is defined* that a trainee should participate in, including a definition of the number and types of cases by subspecialty.

The ACT has hired an outside firm to perform a Job Task Analysis, which is a process strongly recommended by the American Board of Veterinary Specialties (ABVS). The Job Task Analysis is used to establish that our ACT Diplomate Examination actually reflects what a Diplomate does. This Job Task Analysis represents a substantial investment by the ACT. In fact on average the cost will be over \$100 dollars for each and every member. Please take the time to fill out the upcoming survey associated with this analysis. We need the best information possible in order to develop our future plans, so please assist us in using this investment wisely. The information generated by this process will be used in January 2014 at our winter business meeting for strategic planning.

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I was honored to represent the ACT at the business meeting of the European College of Animal Reproduction (ECAR) in Budapest, Hungary. At the meeting I learned that ECAR and the Australian and New Zealand College of Veterinary Scientists Reproduction Chapter were working towards a common vision of a global standard in animal reproduction, including a common framework for minimum standards in training programs and assessments. The executive of ECAR has proposed that the ACT participate in this process. There will be some exciting upcoming opportunities for collaboration between our organizations. The time is right to consider the challenges for the future and global impact of theriogenology on animal and human health and disease.

We are excited to hear that the Theriogenology Foundation is about to launch a new website. We look forward to seeing everyone at the Annual Meeting of the Society for Theriogenology August 7 – 10 in Louisville, Kentucky!

Claire Card

ACT President



## In Memoriam

The American College of Theriogenologists fondly remembers the following members and Diplomates that have passed away since the 2012 spring newsletter:

Dr. Bruce Hollett

April 23, 2013

Dr. Michelle LeBlanc

April 13, 2013

Dr. William C. Wagner

Charter Diplomate

December 10, 2012

# Welcome to the Class of 2012 Diplomates!

Drs. Elizabeth Callahan, Mariana Diel de Amorim, Kirsty Gallacher, Adria Kukk, Natalia Samaj Kunze, William H. Lias, Andrew Lovelady, Stuart Mason, Bret McNabb, Ellen Oostelaar, Lisa Pearson, Cyril Stephen Perumamthadathil, Erin Runcan, Maria Raymond Schnobrich, David Scofield, Charles Scoggin, Mary Swartz, Isabel Velez, Christy Carson Young

**2012 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	17	13
Equine	6	4
Bovine	2	0
Companion Animal	4	2
<b>TOTAL</b>	<b>29</b>	<b>19 (65.5%)</b>

COUNTRY	ACTIVE DIPLOMATE	EMERITUS DIPLOMATE	HONORARY MEMBER	TOTAL
Argentina	1			1
Australia	16			16
Brazil	1			1
Canada	45	4	1	50
Colombia	1			1
Denmark	1			1
France	2			2
Germany	2			2
Israel	2			2
Italy	1			1
Jordan	3			3
Malaysia	1			1
Netherlands	1		1	2
New Zealand	5	1		6
South Africa	7			7
Spain	1			1
Sweden		1	1	2
United Kingdom	2		1	3
United States	294	52	16	362
Venezuela		1		1
<b>TOTALS</b>	<b>386</b>	<b>59</b>	<b>20</b>	<b>465</b>

### Breakdown by Employment Type:

Academia	142
Government	10
Industry	23
Other	15
Private Practice	116
Retired	42
Not Noted	117

# Board of Directors

## Officers:

### Dr. Claire Card

#### President

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### Dr. Steven Brinsko

#### Immediate Past - President

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## Committees

**Exam** - Dr. Jack Smith, (chair), Dr. Bruce Hollett (secretary), Dr. Kara Kolster, Dr. Leonardo F.C. Brito (vice-chair), Dr. Marco Coutinho da Silva, Dr. Sherrie Clark (past-chair)

**Scientific Information / Abstract** - Dr. Dietrich Volkmann (chair), Dr. Ram Kasimanickam (vice chair), Dr. Maria Soledad Ferrer, Dr. Sandra Ayres, Dr. Soon Hon Cheong, Dr. Sara Lyle (past -chair)

**Nominating** - Dr. Claire Card (chair), Dr. Barry Ball, Dr. Stuart Meyers and Dr. Lloyd Kloppe

**Awards Nominating (2013)** - Dr. Gary Althouse (chair), Dr. Ana Adams, Dr. Jonathon Hill, Dr. Kristina Lu, Dr. David Matsas, Dr. Stuart Meyers and Dr. Scott Pretzer

**Awards Nominating (2014)** - Dr. Barry Ball (chair) Dr. Richard Fayer-Hosken, Dr. Rob Gilbert, Dr. Mushtaq Memon, Dr. David Pugh, Dr. Don Sanders and Dr. Christine Schweizer

**Training/Credentialing** - Dr. Milan Hess (2013-chair), Dr. Brian Whitlock (2014), Dr. Ahmed Tibary (2015), Dr. Gary Nie (2016), Dr. Etta Bradecamp (2017), Dr. Steve Brinsko (past ACT president), Dr. Bruce Christensen (2012, past-chair)

**Job Task Analysis** - Dr. Dale Paccamonti, Dr. Ahmed Tibary, Dr. Sherri Clark-Deener, Dr. Maria Soledad Ferrer, Dr. Donald Sanders and Dr. Ram Kasimanickam (Chair)

## Scientific Abstract Committee Report

The Scientific Abstract Committee is pleased to have received 49 abstract submissions for the 2013 Meeting in Louisville, KY. Of these only 3 abstracts were rejected. The remaining 46 papers will be presented in the following sessions: Competitive abstract session (8) for which we received a total of 21 submissions, Happy Hour (8), Equine session (8), Food Animal session (8), Small Animal session (8) and poster session (6). We have seen a modest increase in the number of case studies this year. As in most past years the equine species was best represented amongst all submissions (21/49).

Nine members have made themselves available to serve on the Abstract Committee when we called for nominations to fill the usual two vacancies that arise each year. We are truly grateful for this response from the College. The ACT Board has approved the appointment of Dr. Fernando Campos-Chillon as the new full member (4-year term) and Dr. Sherrie Clark as the new *ad hoc* member (2-year term) on the Committee. We acknowledge the services of Dr. Sara Lyle (past chair) and Dr. Soledad Maria-Ferrer (*ad hoc* member) who have contributed to our work for the past 4 and 2 years, respectively. Sara has not only contributed to the work this committee performs each year, but has provided competent and efficient leadership when she served as our chair in preparation for the 2012 meeting in Baltimore. We thank Sara and Soledad for their selfless contributions. Dr. Ram Kasimanickam, the next chair of this Committee was extremely helpful in representing this Committee on the ACT Board. For 2014, the Committee will consist of Drs. Ram Kasimanickam (chair), Sandra Ayers, Fernando Campos-Chillon, Sherrie Clark, Soon Hon Cheong and myself.

The Abstract Committee has compiled a Standard Operating Procedure for the handling of abstracts from the time the call for abstracts is published until they are submitted to the Editor of Clinical Theriogenology for publication and are presented at the Annual Meeting. This document has been endorsed by the Board. No doubt, as we grow we will have to make some further adjustments to the way we do things and therefore to the SOP, but at least we have now captured in writing what we used to do "the same way as we remembered doing it in the past".

While virtually nothing can ever be expected to happen without little mishaps here and there we acknowledge the administrative support provided to us by the office of Franz Management. Roberta Norris has established a very functional system of receiving, distributing and tracking abstracts and has responded promptly and with precision to our requests for assistance and/or clarification. We also appreciate the very relaxed and friendly interactions with the editor of Clinical Theriogenology, Dr. Bob Youngquist who ensures that accepted abstracts are included in the Proceedings issue of the journal.

Finally, on behalf of the Scientific Abstract Committee, I thank all who have submitted an abstract in 2013. Without all your submissions we would have no assignments and a less informative Annual Meeting. Let's keep this up, because without excellent abstracts we will always have a less than excellent scientific meeting.

We look forward to the Meeting in Louisville!

Dietrich Volkmann  
Scientific Abstract Committee Chair

## Certifying Exam Committee Report

The Certifying Exam Committee of the ACT met in St. Augustine Beach, Florida, from January 9-13, 2013. The current members in attendance were: Sherrie Clark, Past Chair; Jack Smith, Chair; Leo Brito, Vice Chair; Kara Kolster, Michelle LeBlanc, and Marco Coutinho da Silva. Bruce Hollett, ACT secretary was unable to attend.

The review of multiple choice questions began the first afternoon of our meeting. Much effort was spent editing and refining questions to assure they were clear and had sufficient references. This process continued in a similar fashion as we moved into the essay questions. Time was also spent ensuring that the test was equitably constructed in the various species specific portions. After review of every question as well as the practical exam, the pass point was assigned.

The SMT Bank software continues to be used by the committee in test construction. SMT Bank is moving to a web based system that will allow for remote storage of the question bank and web-based exam development which will allow the committee more flexibility in exam preparation. There are additional new features and capabilities in the new system which should make our test construction, test delivery and data analysis more efficient. We are additionally investigating the purchase of a scan-tron machine that will allow us to more efficiently grade the multiple choice portion of the exam as well as provide us useful data on candidate responses.

Efforts are also underway to ensure closer interaction between the Training and Credentialing Committee and the Exam Committee. This should ensure better communication between these two committees regarding the number of candidates approved to take the exam, timelines of communication and species of interest breakdowns in advance of test development.

Dr. Sherrie Clark will roll off of the committee this year and we acknowledge her years of service, her swine expertise and her guidance throughout our question review process. The newest member of our committee whose term will begin immediately following our annual conference is Dr. Carlos Risco. We look forward to him joining our group and enjoying more of his wife's culinary expertise. We are saddened by the recent passing of Drs. Bruce Hollett and Michelle LeBlanc. Their participation and involvement on the Exam Committee will be greatly missed. We certainly appreciate their service to the college especially while battling health issues.

The 2013 Certifying Exam will be given on August 6-7, 2013 prior to the SFT/ACT Annual Conference in Louisville, KY

Respectfully Submitted,

Jack D. Smith, DVM, DACT  
ACT Certifying Exam Committee Chair

# Nominees for Officers and Directors of the College

The newly elected vice-president will assume the offices of president-elect and president in 2014 and 2015, respectively. Please mark the enclosed ballot and return in the pre-addressed envelope. Your ballot should be mailed in order for it to reach the ACT office by June 14, 2013.

## Vice President:

**Dr. Sara Lyle** is a graduate of the University of Florida's College of Veterinary Medicine, and following two years experience in a private equine practice, she completed a clinical residency/Master's of Science at the University of Florida's College of Veterinary Medicine. She became a Diplomate of the ACT in 1990. After ten years in private practice, Dr. Lyle returned to academia as a Visiting Clinical Instructor at North Carolina State's College of Veterinary Medicine, and in 2002 she joined Louisiana State University's School of Veterinary Medicine as a Clinical Instructor, where she completed a PhD focused on immunologic and endocrinologic aspects of infective preterm delivery in mares. Currently she is an Assistant Professor of Theriogenology at LSU. She has contributed to the profession through service, teaching, and numerous peer-reviewed articles and book chapters on equine and canine reproduction, and she is the section editor of Theriogenology for The 5-Minute Veterinary Consult. She has chaired the Animal Welfare Committee (joint ACT/SFT), and is the current past-chair of the Scientific Abstracts Committee. She also participates in the Therio Educators Forum. Dr. Lyle is the faculty advisor to the Student Chapter of the Society for Theriogenology. She recognizes that many challenges continue to face the College, including credentialing, education of students and training of residents, job task analyses, and specialty recognition at both the institutional and public levels. We have vibrant and passionate members, and the input of all members is vital to finding solutions to these challenges. She looks forward to serving in any capacity that would contribute to the missions of, and challenges facing the College.

## Executive Board Member Director-At-Large:

**Dr. Chris Berezowski** graduated from the Western College of Veterinary Medicine, University of Saskatchewan, in 2002. He then completed a one year internship at Alamo Pintado Equine Medical Center in Los Olivos, California. In 2005, Dr. Berezowski completed a theriogenology residency at Texas A&M University and became a Diplomate of the American College of Theriogenologists that same year. In 2008, Dr. Berezowski became a diplomate of the American Board of Veterinary Practitioners (Equine Practice).

Dr. Berezowski is currently a partner of Moore Equine Veterinary Centre in Calgary, Alberta. His caseload primarily consists of equine reproduction and sport horse practice. Dr. Berezowski's main equine reproductive focus is on artificial insemination (fresh/cooled/frozen), embryo transfer, mare/stallion infertility and semen cryopreservation.

**Dr. Juan C. Samper** obtained his veterinary degree from Colombia in 1982 and after 3 years of large animal practice enrolled in the reproduction program at the University of Minnesota where he did a residency and earned his Masters and a PhD degrees. Dr. Samper was also employed as a resident veterinarian at the Swedish National Stud in Flyinge during his residency training and became board certified with the American College of Theriogenologists in 1991. In 1990 Juan joined the faculty at the Ontario Veterinary College and after 3 years in academia he established his own equine reproduction practice in Vancouver,

Canada. In 1996 he was elected as a board member of the Society for Theriogenology and had the honor to serve as its president during 2000-2001.

In 2001 Dr. Samper accepted a position as associate professor in Equine Theriogenology at Kansas State University. Personal reasons brought Dr. Samper back to Vancouver where he still owns his private practice. Besides his private practice Juan has consulted extensively in North and South America as well as in Europe. Dr. Samper has published several articles and book chapters in equine reproduction and is the editor of two editions of Equine Breeding Management and AI and co-editor of Current Therapy in Equine Reproduction. He is an active member of the AAEP and was a board member and past-president of the North East Association of Equine Practitioners. Dr. Samper has also served as a consultant for Sexing Technologies sexing stallion semen. In addition consulting and to his practice, which he has had for 19 years, Dr. Samper is interested in developing strategies so that veterinary students better understand the relationships they must foster when entering practice.

## Secretary:

**Dr. G. Reed Holyoak** is a professor and holds the Bullock Equine Reproduction Endowed Professorship in the Veterinary Clinical Sciences department of the Center for Veterinary Health Sciences at Oklahoma State University. He received his B.S. in animal science in 1983 and M.S. in animal reproduction in 1984 from Brigham Young University before earning his DVM from Washington State University in 1988 and PhD from University of Kentucky in 1992. He became a Diplomate of the ACT in 2000 via the alternate route and served on the ACT Examination Committee from 2005 to 2011 (being Chair in 2010). Reed also served as Chairman of the United States Animal Health Association's Committee on Import/Export from 2000 to 2005, and recently completed the AAVMC Leadership Academy (2013). Holyoak's current research interests include reproductive infectious diseases and the integration of acupuncture within theriogenology. He has published on equine, bovine, and canine reproduction topics. Reed's aspiration within the ACT is to be of useful service.

## Honorary Member:

**Dr. Ralph L. Brinster** is an American geneticist and Richard King Mellon Professor of Reproductive Physiology at the School of Veterinary Medicine, University of Pennsylvania. Dr. Brinster studied animal science as an undergraduate at the Cook School of Agriculture, Rutgers University and completed his B.S. in 1953. He served as an officer in the United States Air Force from 1953 to 1956, serving during the Korean War. He returned from military services and earned his V.M.D. (1960) and his Ph.D. in Physiology (1964) from the University of Pennsylvania.

Dr. Brinster's lifetime of research and discovery led to revolutionary advances in reproductive biology and genetics. His relentless work with embryonic culture systems, stem cells and transgenesis – the insertion of new genes into the germ line of a developing organism – has provided valuable insight into the origin and treatment of both animal and human diseases.

This August the Theriogenology Foundation was proud to honor Ralph L. Brinster VMD, PhD with the 2012 Career Excellence in Theriogenology Award for his contributions to the field of reproductive veterinary medicine. Dr. Brinster adds this award to his collection of at least 32 honors and achievements over the past five decades. In 2010, he became the first veterinarian to receive the National Medal of Science from the President of the United States. In addition to his other accomplishments and honors

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# Dr. Peter Chenoweth

## Selected as 2013 Theriogenologist of the Year

### Sponsored by Zoetis

Peter Chenoweth BVSc, PhD, DACT, MAVSc, has been selected for the 2013 "Theriogenologist of the Year" award. Dr. Chenoweth is recognized as an authority in andrology and was nominated by his peers for his significant contribution to theriogenology in this area.

After graduating with honors in veterinary science in 1968 from the University of Queensland and working as a researcher, Dr. Chenoweth was a veterinarian in private practice for a few years, then earned his PhD, and worked in various teaching/administrative capacities. In addition, he became a Diplomate of the American College of Theriogenologists in 1977. He has served as an educator to veterinary students, graduate students, veterinarians, and producers on two continents. He is an innovative teacher and has been awarded for that effort at more than one university. Among his appointments, the most noteworthy is his selection to lead the endowed chair position at Kansas State University, as the Coleman Chair of Food Animal Production Medicine. After 32 years of dedicated service to many institutions of higher learning, he entered the animal industry, currently directing an animal andrology laboratory in his homeland of Australia.

Because of his breadth of knowledge in the field of animal andrology, Dr. Chenoweth has been invited to present at many national and international meetings to stimulate interest of veterinarians in various professional groups in his favorite topic. The most important recent presentation was a plenary session at the International Congress on Animal Reproduction in 2012. Quality control and biosecurity in bull studs have been strengthened by his work, which includes acting as co-founder of the Consortium of the Independent Andrology Laboratories, and establishing andrology laboratories at one Australian and two North American universities. He is co-founder and currently acts as president of the Association for Applied Andrology, which promotes high quality semen evaluation and management in all species. He served the Society for Theriogenology as President in 2006 and is one of the founding Diplomates for the Educator's Forum. Dr. Chenoweth has also been a member of the Australian College of Veterinary Specialists since 1986.

Dr. Chenoweth is a prolific author, having produced many book chapters and original research papers in refereed journals. He also is the author of several texts. At present, his most recent publication, *Animal Andrology*, is a text addressing semen evaluation and biosecurity in all species. This will be a much-used resource in theriogenology.

Dr. Chenoweth will be honored at the Therio Awards Banquet, Friday, August 9th at 6:30 p.m. in conjunction with the Therio Conference in Louisville, Kentucky, August 7-10, 2013. This is an event that you will not want to miss! Register for the conference and purchase your Awards Banquet tickets today at [www.therio.org](http://www.therio.org).

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he has also become an honorary member of the Society for Theriogenology.

**Dr. Peter Ryan** received his Master of Science degree in 1984 with a major in Reproductive Endocrinology and his Doctor of Philosophy degree in 1989 with a major in Physiology of Reproduction, both from University of Guelph. Dr. Ryan is currently the Associate Provost at Mississippi State University, but prior to that held a joint appointment with the Department of Animal Science in the College of Agriculture and the Department of Pathobiology and Population Medicine in the College of Veterinary Medicine. His research interests have been related to late term pregnancy in the mare, specifically relaxin, fescue toxicosis, and pre-term delivery. Dr. Ryan has a long history of continual scientific contribution to the field of theriogenology and has consistently contributed to the literature, while also speaking at national and international conferences, including the Therio Conference in 2010. Dr. Ryan has 62 peer-reviewed publications, 160 scientific meetings and abstracts, 41 proceedings, industry articles, annual reports, and book chapters, not counting the ones that have been submitted and are in review or accepted, but awaiting publication and 39 scientific presentations. He is the recipient of 21 University and college level awards including Pfizer Excellence in Veterinary Research Award, College of Veterinary Medicine, Mississippi State University and numerous teaching awards. In addition to all of this, Dr. Ryan devotes a great deal of time working with theriogenology residents and students interested in equine reproduction.

About ten years ago Dr. Ryan applied for and received associate membership status in the Society for Theriogenology and since that time has attended all but one annual conference meeting. He has been an active member as an associate and a great supporter of the Theriogenology Foundation.

#### 2013 STUDENT CASE POSTER PRESENTATIONS SCHEDULE

Student Name	Topic
Erika Larsonberg	Uterine horn torsion associated with a mummified fetus in a ewe
Jessica Bradford	Marble induced pyometra in an Appaloosa Mare
Stacey Nahachewsky	Pre-pubic tendon rupture in late term mares - a genetic link?
Carla Barstow	Diagnosis and treatment of a pregnant bitch with immune-mediated polyarthritis
DeAnna Cotton	Case of transitional cell carcinoma in the vagina
Anna Daniel	Recurrent seminal vesiculitis in a stallion
Sara Steidl	A case of female pseudohermaphroditism in a Dorset cross sheep

#### 2013 STUDENT CASE PRESENTATIONS SCHEDULE Thursday August 8, 2013

Present	Student Name	Topic
03:30 PM	Amanda Durand	Diagnosis and treatment of a gelding with seminal vesiculitis
03:45 PM	Jason Anton	Use of a modified vinsot technique for partial phallectomy due to paraphimosis
04:00 PM	Viviane Cristine Leite Gomes	Satisfactory semen quality after testicular rupture and hemicastration in a bull
04:15 PM	Florence Whitehill	Late term twin pregnancy management in a Thoroughbred mare
04:30 PM	Chris Versteeg	Suspected granulosa cell tumor in a Holstein heifer
04:45 PM	Ana Malone Oliver	Single mummified fetus in mare

# Therio Conference & Symposia

The Seelbach Hilton Hotel / Louisville, KY / August 7-10, 2013 Register online at [www.therio.org](http://www.therio.org) • Pre-registration savings date July 1, 2013

## Goat Symposium:

### Wednesday August 7, 2013

General caprine herd health	Dr. David Pugh
Caprine reproduction (seasonality, estrous cycle)	Dr. Lionel Dawson
AI – synchronization, laparoscopic and trans cervical	Dr. Lionel Dawson
Embryo transfer, pregnancy diagnosis, vaccinations	Dr. Misty Edmondson
Causes, diagnosis and prevention of pregnancy loss	Dr. David Pugh
Birthing, dystocia management, feeding the doe, care of the kid	Dr. David Pugh
Buck evaluation, and semen handling (for freezing or for thawing or for fresh AI)	Dr. Misty Edmondson
Diet and parasite prevention, all you want to know in 15 minutes or less	Dr. David Pugh

## Small Animal:

### Track I

#### Friday August 9, 2013

##### SMALL ANIMAL ABSTRACTS

Reproduction in pocket pets	Dr. Angela Craig
Reproduction in rabbits	Dr. Cliff Shipley
Advanced techniques in rabbit production	Dr. Mario Baracaldo

#### Saturday, August 10, 2013

Ovariectomy vs. Ovariohysterectomy: should the uterus stay or should it go?	Dr. Roberto Novo
Laparoscopy for reproductive surgeries: it's kinda like playing Wii, but different	Dr. Roberto Novo
That's not normal: how to handle vaginal anatomic anomalies	Dr. Roberto Novo
If I tell you...I'll have to kill you: tricks, tips and ideas for canine reproductive procedures.	Dr. Roberto Novo
HQHV spay/castration programs	Dr. Brenda Griffin
Anesthesia updates	Dr. Angie Jimenez

### Track II

#### Friday August 9, 2013

Use of endoscopes	Dr. Cheryl Lopate
Advanced reproductive technologies	Drs. Cheryl Lopate & Nick Elam
Practical investments for semen evaluation and processing in small animal practice	Dr. John Verstegen

Sponsored by Minitube

#### Saturday, August 10, 2013

Transitional cell carcinoma of the canine reproductive tract	Dr. Sara Fritz
Thyroid hormone testing	Dr. Peggy Root
Progesterone testing	Dr. Peggy Root
Fungal diseases of the canine reproductive tract	Dr. Peggy Root

## Production Animal:

### Friday August 9, 2013

##### PRODUCTION ANIMAL ABSTRACTS

Trichomoniasis	Dr. Misty Edmonson
Sponsored by Boehringer Ingelheim	
Trichomoniasis	Dr. Andrew Lovelady
Genetic Markers	Dr. Kent Andersen

### Saturday, August 10, 2013

Cattle physiology & the CO-Synch + CIDR synchronization program	Dr. Mike Day
Application of physiological principles to optimize timed AI pregnancy rate with the 5 d CO-Synch + CIDR program	Dr. G. Allen Bridges
Cost and value of beef heifers bred using fixed time AI or short season natural service	Dr. David Cupps
Management factors that affect success of AI programs in beef cattle	Drs. Mike Day & G. Allen Bridges
Estrus synchronization in does	Dr. Lionel Dawson
Pregnancy and kidding problems in does	Dr. Lionel Dawson
Assisted reproductive technologies in small ruminants	Dr. Juan Romano

## Equine:

### Mare and Foal Symposium

#### Wednesday August 7, 2013

Antibiotic therapy for reproduction in the mare	Dr. Kristina Lu
Update on antibiotic therapy in foals	Dr. Steeve Giguere
Clinical management of the equine oviduct	Dr. Pat Sertich
Mare and foal parasite control	Dr. Wendy Vaala
Rhodococcus update	Dr. Steeve Giguere
Top ten foal medicine papers	Dr. Chris Sanchez
Roundtable Discussion	Drs. Giguere, Sanchez and Lu

#### Friday August 9, 2013

##### EQUINE ABSTRACTS

The problem mare - clinical cases	Moderator - Dr. Etta Bradecamp Drs. Claire Card & Karen Wolfsdorf
How pain may adversely affect reproduction	Dr. Chris Sanchez
An introduction to equine acupuncture	Dr. Allison Faber

#### Saturday, August 10, 2013

Let's get clear about how to use prostaglandins and other reproductive hormones	Dr. Carlos Pinto
Update on placentitis - what has been accomplished in the last 3 years	Dr. Scott Bailey
Metabolic diseases	Dr. Peter R. Morresey
The use of endometrial biopsies in formulating a treatment plan for the infertile mare	Drs. Pat Sertich & Steve Brinsko
The problem stallion - clinical cases	Moderator - Dr. Steve Brinsko Drs. Dickson Varner & Juan Samper
Ancillary semen tests	Dr. Dickson Varner
The top reproductive papers of 2012-13	Drs. MaryBeth Stanton & Audrey Kelleman

# Abstracts

## Competitive Session

Igor F. Canisso, DVM, MSc,  
DACT, DECAR, PhD student

Experimental induction of nocardioform placentitis in mares

Justine M. Gullaba, BS

Utilizing a wound healing assay to study canine trophoblast physiology in vitro

Hilari French, DVM, PhD

Effects of Pyrethroid Insecticides on cattle fertility

Caitlin Donovan, BS

GnRH immunization for the treatment of urinary incontinence in spayed bitches

Kathleen Gutierrez, BS, DVM

Association of reproductive tract scoring of beef heifers and reproductive efficiency in AI and natural service beef herds

Lisa Pearson, DVM, MS, DACT

Laparoscopic-assisted ovariectomy in alpacas (*Vicugna pacos*)

Stephanie Skinner, BS

Calcium carbonate in mammary gland secretions and fetal readiness for birth in alpacas

Elizabeth A. Coffman, DVM

Effects of early versus mid diestrus PGF 2a administration in the mares

## Opening Session

Stephanie Schroeder, BS, DVM

Influence of modified 2-point temperament score on AI pregnancy in beef heifers

Alexis Campbell, DVM

Cesarean section in alpacas and llamas at a referral center - technique, survival, and postoperative fertility: 24 cases (2000-2012)

Alejandro Esteller Vico, DVM, PhD

Equine lactoferrin increases in vitrobinding of polymorphonuclear Nuetorphils to Spermatozoa

Michelle Kutzler, DVM, PhD, DACT

Os Clitoridis incidence on radiographs submitted for coxofemoral dysplasia evaluations

Viviane C.L. Gomes DVM

Stallion spermatozoa recovery rate after centrifugation and removal of the supernatant using different methods

Elizabeth Woodward, PhD

The effect of immune modulators on endometrial cytokine expression in mares susceptible to persistent breeding induced endometritis

C. Scott Bailey, DVM, MS, DACT

A placental inflammatory reaction to LPS at 34 days or near-term is inhibited by the non-steroidal anti-inflammatory drug flunixin mehlumine

Robyn R. Wilborn, DVM, MS, DACT

Leiomyoma in the spermatic cord of a stallion

## Equine

Daniel Fernando Mogollon, DVM

Inflammatory endometrial response to two different uterine lavage solutions in donor mares

Catherine May, BVSC

The distribution of carrier status of *T. equigenitalis* in stallions and exposed mares in South Africa

Catherine May, BVSC

The distribution of *Taylorella equigenitalis* the external genitalia of carrier stallions in South Africa

Susan Rodgers

Effect of LDL on stallion sperm motility after cryopreservation

Aime K. Johnson, DVM, DACT

Analysis of two formulations of ceftiofur in the seminal plasma of stallions

Maria Schnobrich, VMD, DACT

Ultrasonographic characterization of the accessory sex glands in normal geldings

Helene L. Resende, DVM

Comparison of follicular irrigation of mares supplemented and non-supplemented with L-Arginine - Partial results

Michelle Kutzler, DVM, PhD, DACT

Temporary Aspermia following equine viral arteritis (EVA) vaccination in a stallion

## Special Events

Opening Session Abstracts

Opening Session Reception

David E. Bartlett Award for Lifetime Achievement in Theriogenology

Dr. Jerry Rains Memorial Abstract Competition

**Sponsored by Merck**

SFT Business Meeting

ACT Business Meeting

Student Case Presentations  
**Sponsored by Zoetis**

Student/Mentor Reception

Exhibit Hall Opening Reception

SFT Fun Night -

Kentucky Derby Museum  
**Sponsored by Merck**

Student Quiz Bowl | Bourbon Tasting

Dr. Temple Grandin -  
Speaker - Booksigning

Dr. Candace Croney - Speaker

Silent Auction - Reception

Awards Dinner and Live Auction

Louisville BATS Baseball

**Louisville Bats**

**Baseball**

**All you can eat seats!!**

Group outing on Saturday

August 10, 2013

Tickets are \$24 per person

Walk to the game, or ride  
the free trolley.



## Hotel Registration

The Seelbach Hilton Hotel  
500 S. Fourth Street  
Louisville, KY 40202  
502.585.3200

Remember to tell them you  
are with SFT when booking  
your room.

## Great Opportunities for Students

Conference registration for students is  
**FREE through July 1!** So be sure to  
register today!

The Merck Theriogenology Quiz Bowl will  
be held during the Thursday evening event  
at Churchill Downs. This event will feature  
teams of three students from each student  
chapter and will include questions covering  
theriogenology in all species. The master  
of ceremonies for the competition will be  
Mr. Ron McDaniel, National Equine Sales  
Manager for Merck Animal Health and  
SFT cowboy poet laureate. Winning team  
members will each receive a personal prize  
as well as a cash award for their chapter  
(\$300 for 1st place, \$100 for 2nd).

### Student Quiz Bowl Sponsored by:

Merck  
Current Conceptions  
Brittmoore Animal Hospital

### T-shirt Contest Sponsored by:

Bovine Services, LLC

Quiz Bowl points will count towards the  
SCOTY Award  
(Student Chapter of the Year) sponsored  
by Rood and Riddle Equine Hospital with  
\$1,000 awarded to the winning chapter,  
and \$500 awarded for second place.  
Complete the application form by June 1,  
2013. Form and instructions can be found  
online at [www.therio.org](http://www.therio.org).

### Production Animal

Kelly Chevett, BS

Efficacy of short progesterone protocol on previously  
anestrous does

Mariana Ionello Giasseti, DVM, MSc

Aged effect on expression of bovine spermatogonial stem  
cells molecular markers

Katily Hanson

Detection of genes encoding multidrug resistance and  
biofilm virulence factor of uterine pathogenic bacteria in  
postpartum dairy cows

Ram Kasimanickam, BVSC, DVSC, DACT

Mucin1 and cytokines mRNA in endometrium of dairy  
cows with uterine diseases

Ram Kasimanickam, BVSC, DVSC, DACT

Effect of GnRH at CIDR insertion on Day 0 and number of  
PGF2a doses at CIDR removal on Day 5 on AI pregnancy  
rate in heifers synchronized with 5-d CO-Synch+CIDR  
program

Brian Whitlock, PhD, MS, DVM, DACT

Kisspeptin receptor agonist (FTM080) increased plasma  
concentrations of luteinizing hormone in anestrous ewes  
Abberant follicular dynamics in dairy cows due to sublethal  
levels of progesterone after incomplete luteolysis or CIDR  
application during and after superovulation

Angelika Stock, DMV, DES, PhD, DACT

### Small Animal

Marni Hersh bain, BA

Female rat reproductive anatomy and non-surgical embryo  
transfer

Michelle Kutzler, DVM, PhD, DACT

Evaluation of canine sperm morphology using two  
techniques for sperm separation

Natali Krekeler, Dr Med Vet, PhD, DACT

Global endometrial gene expression during simulated  
diestrus, estrus and anestrus in the bitch

Robyn R. Wilborn, DVM, MS, DACT

Accuracy of three commercially available methods for  
quantifying concentration of canine semen as compared  
to the Neubauer hemocytometer between operators of  
differing experience levels.

Vanmathy Kasimanickam, DVM, MS

Exogenous and endogenous retinoic acid modulates  
meiosis-associated genes expression in canine testis, an *in  
vitro* model

Joann Randall, DVM, DACT

Ultrasonic estimation of gestational age in bitches of  
various sizes

Ajadi Temitope Ayisat, DVM, MVSC

Practices and concerns of castrations in dogs in Nigeria

### Poster Session

Anthony Claes, DVM, DACT

The interrelationship between antral follicle count, anti-  
Müllerian hormone concentrations and age in mares

Young Ho Choi, DVM, PhD

Effect of medium and medium glucose concentration on  
equine embryo development after intracytoplasmic sperm  
injection

Heath King, DVM, DACT

Effects of dietary zearalenone exposure on the  
reproductive performance of mares

Justin T. Hayna, DVM, DACT

Persistent luteal function and spontaneous lactation in a  
non-pregnant mare

Please join us the afternoon of Saturday, August 10 for the Educator's Forum.  
Colleagues from across the country will discuss residency training at their  
institutions. Participants also will learn about an exciting board-prep opportu-  
nity for their fourth year students.

Fellow Diplomates,

As you may recall, significant progress was made last year by the adoption of amendments to the College's Constitution and ByLaws (CBL). However the current CBL still requires final decisions to be made by the voting members present at the annual business meeting. When the original CBL was drafted by our founding fathers, they did not envision the ability of Diplomates to communicate and vote via the internet or email. Therefore, the following amendments are being proposed in an attempt to modernize our CBL by taking advantage of 21st century communication technologies that enables electronic voting. The proposed amendments are provided below for your review with the proposed changes shown with strike-thru for language being replaced and new language denoted by underlines. Note that in accordance with the current version of the CBL, the proposed amendments will be voted on by the members present at this summer's annual business meeting in Louisville.

Respectfully,

Steven P. Brinsko

Immediate Past President, ACT

## PROPOSED CHANGES TO THE ACT CBL/ March 29, 2013

*Co-sponsors of these amendments are Drs. Steven Brinsko, Terry Blanchard and Dickson Vamer*

### CONSTITUTION

#### Article II. Certification

Section 6. Honorary Member.

d) Upon recommendation by the Executive Board, an Honorary Member shall be selected if they receive an affirmative vote of two-thirds of the ~~votes cast by voting~~ Diplomates voting in a mail on or through the ACT website ~~ballot conducted~~ prior to any annual business meeting of The College. Ballots shall be posted on or through the ACT website and the ballot announcements will be distributed via the ACT list serve to all voting Diplomates a minimum of sixty (60) days before the annual business meeting of The College.

#### Article V. Officers

Section 2. the Vice President, Secretary, and Treasurer shall be elected by ~~mail ballot prior to the annual business meeting from Diplomates of the College~~ electronic ballot posted on or through the ACT website and the ballot announcements will be distributed via the ACT list serve to all voting Diplomates a minimum of sixty (60) days before the annual business meeting of The College.

#### Article VIII. Amendments

Section 3. An affirmative vote of a two-thirds majority of the ~~voting Diplomates in attendance at voting on or through the ACT website within 30 days after~~ the annual business meeting shall be required for the adoption of any amendment.

### BYLAWS

#### Article I. Organization

Section 2. The number of Diplomates of

The College present at the annual business meeting shall constitute a quorum for business and the number of Diplomates voting through an electronic process will substitute for a quorum for electronically conducted business. A majority vote at the annual business meeting shall resolve matters of business presented to The College, unless otherwise specified in the Constitution or By-Laws.

#### Article II. Executive Board

Section 4. The Secretary and Treasurer shall be members of the Executive Board for 3-year terms and shall assume responsibilities at the annual business meeting immediately subsequent to their election. The Secretary and Treasurer shall each be elected by electronic ballot posted on or through the ACT website and the ballot announcements will be distributed via the ACT list serve to all voting Diplomates a minimum of sixty (60) days before the annual business meeting of The College. ~~mail ballot prior to an annual business meeting for 3-year terms and shall assume responsibilities at the annual business meeting immediately subsequent to their election.~~

Section 6. Election of officers and Delegates-at-Large will be conducted in accordance with the following procedures:

Ballots shall be ~~mailed~~ posted on or through the ACT website and the ballot announcements will be distributed via the ACT list serve to all voting Diplomates a minimum of sixty (60) days before the annual business meeting of The College.

Diplomates who are in good standing at the time the ballot is ~~mailed~~ posted are eligible to vote.

Ties will be resolved during the annual business meeting of The College. The number of Diplomates of The College present at the annual business meeting shall constitute a quorum for the breaking of ties. Names of candidates that were tied with the largest number of votes will be placed on the ballot, and Diplomates in attendance at the annual business meeting will vote to determine the winner.

Section 9. The Executive Board shall first consider all business and policies pertaining to the affairs of The College. It shall receive and evaluate reports of the Training/Credentialing and Certifying Examination Committee, and grant certifications. Candidates must be unanimously approved by the Executive Board before they are recommended to the Certifying Examination Committee. Ballots for petitioners to candidacy may be cast through the mail or by electronic means such as fax or e-mail; dissent from unanimity must be resolved by the Executive Board in session. It shall consider and act upon charges against Diplomates for alleged offenses against the Constitution and ByLaws, written requests for excuse of absence, charges of unprofessional conduct, and expulsion of Diplomates. It shall receive nominations for officers and Delegates-at-Large from the Nominating Committee, select time and place of meetings, direct the use and investment of funds, and make recommendations for Honorary Member or Emeritus Diplomate status. An Executive Board report shall be made annually to the annual business meeting of the College. No decision of the Executive Board shall be binding except by majority vote of the Diplomates voting on or through the ACT

website within 30 days after at the annual business meeting.

#### Article IV. Committees

Section 5. The Executive Board shall appoint a Training/Credentialing Committee whose duties shall be to establish requirements for postgraduate education and experience prerequisites to certification in theriogenology, establish standards for training and mentorship programs, review and approve training program and trainee registration applications, review credentialing applications and make recommendations to the Executive Board for approval.

Standards and requirements for postgraduate education and experience prerequisites to certification in theriogenology shall be established in a General Information Guide for The College.

4) Substantive changes to the General Information Guide that are approved by the Executive Board must also be approved by a majority of the ~~voting Diplomates in attendance~~ at voting on or through the ACT website within 30 days after the annual business meeting before they shall become effective.



## theriogenology foundation

*The Future of Animal Reproduction*

### Annual Theriogenology Foundation Auction

#### Call for Auction Items

The Theriogenology Foundation will host its 5<sup>th</sup> Annual Silent and Live Auctions Fundraiser on Friday evening August 9, 2013 in conjunction with the Therio Awards Dinner. The success of the event depends on your participation so dig deep into your basements, offices, and attics for special items. Share examples of art, crafts, and food unique to your part of the country. A wide variety of offerings allows all to participate and to support the Foundation. Be creative!

One hundred percent of the proceeds from the auctions enable our Theriogenology Foundation to advance the science and practice of animal reproductive medicine by supporting the activities of members of SFT and ACT. Help secure our future!

#### Suggested Items

Sporting Items – Biking, Hunting, Fishing, Riding, Running, etc.

General Books – Fiction, History, Animal Themes, Other Non-Fiction, etc.

Veterinary Books

Veterinary Products

Artwork

Handcrafted Items – Pottery, Baskets, Weaving, Jewelry, etc.

Clothing

Clinic Visits

Special Events – CE, Tickets to sporting events

Vacations

Food and Booze

If you can't think of an item to donate, you can donate money and the staff will select an item for the auction in your name.

Please notify Roberta Norris of all donations at the Theriogenology Office via email: [Roberta@franzmgt.com](mailto:Roberta@franzmgt.com), fax: 334-270-3399, or by mail: TF Auction, PO Box 3007, Montgomery, AL 36109. The deadline for all auction donations is **July 1**.

### Thank you for your generous donations!

#### Back by popular demand The Annual Therio Foundation Convention Package Raffle

Win registration, lodging, special event tickets, and a travel stipend for the 2014 SFT Convention August 5-9, 2014, in The Rose City, Portland, Oregon. See beautiful Mt. Hood and the historic Willamette River, visit the numerous microbreweries and microdistilleries, enjoy the variety of restaurants, and view the spectacular rose gardens while learning the latest advancements in Theriogenology.

Only 100 tickets. \$100.00 each.

Purchase a raffle ticket to support TF and join SFT/ACT/TF in Portland in 2014.

Tickets available May 1, 2013.

Contact Roberta at

[Roberta@Franzmgt.com](mailto:Roberta@Franzmgt.com)

or Carol McLeod, DVM at

[cmcleoddvm@aol.com](mailto:cmcleoddvm@aol.com)

## Thank You to Our Conference & Symposia Sponsors

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*(as of 4.15.2013)*

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 Spectrum Technologies  
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 Vetel Diagnostics  
 Vet Imaging  
 Wickliffe Veterinary Pharmacy  
 Zoetis

### **Breeder:**

#### **Breeder Symposium**

**Saturday August 10, 2013**



The food fads: how to dodge disaster from breeding to weaning  
 Dr. Jill Cline

Interactive panel discussion Drs. Cline & Joann Randall

It's all about him, collecting/shipping/freezing your stud dog for success  
 Dr. Cynthia O'Connor

Interactive panel discussion Drs. O'Connor, Cheryl Lopate,  
 Will Schultz

What does it take to get a WKC BIS? Dr. Scott Dove

Stayin alive - birth to 3 weeks of age Dr. Rick Kesler

Interactive panel discussion Drs. Kesler, Lopate, Dove

What goes on in the back room: reproductive surgery for the feline/canine  
 Dr. Robert Hutchinson

Interactive panel discussion Drs. Hutchinson, O'Connor, Schultz

