



AMERICAN COLLEGE
OF THERIOGENOLOGISTS

Newsletter

Spring 2017



Reminder

Ballot deadline is June 15

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[Click for 2017
Therio Conference news](#)



Dear ACT Diplomates,

Greetings to all. It has been another busy year for the committees and the executive board.

The Training and Credentialing Committee worked diligently and approved a total of 18 candidates to sit for the certifying exam in August 2017 in Fort Collins, Colorado. The Examination Committee worked hard and formulated the certifying exam for this year which will be completely computerized.

As you may recall, a total of 27 candidates sat for the exam in Asheville in August 2016. Of these, 15 candidates successfully passed the examination; six of which did not fulfill all requirements for becoming a diplomate in the ACT. So far, only three of these have completed all of the

requirements. I request their mentors help these candidates to complete their requirements at the earliest possible date.

A total of 71 scientific abstracts were submitted this year for consideration for oral presentation at the annual Therio Conference. Considering the submissions of previous years, the total number of submissions is consistent. Thanks to all who submitted abstracts this year and I am very eager to listen to the fruitful outcome of your hard work in August.

This year, many diplomates expressed interest to serve on the executive board. This is a welcome change. We have an excellent pool of candidates this year. Please cast your vote for this important process of our college. On behalf of the college, I personally thank all the diplomates who nominated this group of candidates. Good luck to all!

You may have noticed the recent announcement from the Theriogenology Foundation Silent Auction Committee. Please consider donating items for the upcoming 2017 Therio Foundation Silent Auction. The deadline is June 15.

I hope you have made plans to attend the SFT/ACT annual Therio Conference, August 2-5, 2017 in Fort Collins, Colorado. The Conference Program Committee has organized an excellent program. You don't want to miss it. We look forward to seeing all of you in Fort Collins.

Sincerely,

Ram Kasimanickam

President, American College of Theriogenologists



Vote and you could win!

Vote on your ACT officers and directors. Sign in to the ACT site, then click the link below or place the ballot link in your browser. (http://www.theriogenology.org/surveys/?id=2017_Ballot.) You will be allowed to vote one time only. Your vote is completely confidential. There will be a random drawing of the individuals who vote in the officer/board elections for a non-transferable prize of a complimentary therio meeting registration within three years of the award. Vote today for your chance to win! Voting ends June 15.

Welcome Class of 2016 Diplomates!

Drs. Callum Donnelly, Robyn Ellerbrock, Andrea Hesser, Rochelle Jensen, Firdous Khan, Lynda Miller, Clare Scully, Jenny L. Sones, Carly Turner, Christopher Premanandan, Shuji Peter Tazawa and David Trundell

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	11	8	
Equine	9	4	
Bovine	1	0	
Companion Animal	6	3	
TOTAL	27	15	56%

Route	Sat the exam	Passed the exam	
Standard (Resident)	19	11	
Alternate (Mentorship)	8	4	
Graduate	0	0	
TOTAL	27	15	

COUNTRY	ACTIVE DIPLOMATE	EMERITUS DIPLOMATE	HONORARY MEMBER	TOTAL
Argentina	1			1
Australia	23			21
Brazil	0	1		1
Canada	35	9	1	45
Colombia	2			2
Denmark	1			1
France	3			3
Germany	3			3
Grenada	1			1
Israel	2			2
Italy	1			1
Ireland	1			1
Jordan	3			3
Malaysia	1			1
Mexico	1			1
Netherlands	3		1	4
New Zealand	5		1	6
South Africa	6			6
Spain	1			1
Sweden	0		1	1
Switzerland	2	1		3
United Kingdom	5		1	6
United States	293	65	20	378
Venezuela	0	1		1
West Indies	1			1
TOTALS	394	78	24	496

Breakdown by Employment Type:

Academia	196
Government	9
Industry	23
Private Practice	148
Retired	43
Other	77

Breakdown by Primary Species:

Mixed	54
Bovine	115
Canine	12
Equine	164
Feline	2
Porcine	6
Small Animal	36
Small Ruminant	8
Wildlife	1
Other	98



Like us
ACT Facebook



In memoriam

The American College of Theriogenologists fondly remembers the following diplomate that has passed away since the 2016 spring newsletter:

Gregor L. Morgan

Dr. Morgan (Massey '76), 64, Stillwater, Oklahoma, died Aug. 14, 2016. After earning his veterinary degree and a master's in reproductive physiology (1978), both from Massey University in New Zealand, he moved to Stillwater, where he completed a residency in theriogenology and earned his doctorate in reproductive physiology from Oklahoma State University. Dr. Morgan then began his more than 30-year teaching career at the university's Veterinary Medical Hospital, focusing on production medicine and theriogenology.

During his tenure, he also served 22 years as chief of the food animal medicine section. A diplomate of the American College of Theriogenologists, Dr. Morgan was known for his expertise in embryo transfer in horses and cattle. He was a member of the Society for Theriogenology, American Association of Bovine Practitioners, American Association of Equine Practitioners, and American Embryo Transfer Association.

Dr. Morgan is survived by his wife, Dr. Sandra Morgan (Oklahoma State '80), a retired toxicologist and instructor at Oklahoma State University; two sons; and three grandchildren.



2017 Certifying Exam Committee Report

The ACT Certifying Exam Committee met in Columbus, Ohio, from January 4-8, 2017. The members in attendance were: Marco Coutinho da Silva, Past-Chair; Michelle Kutzler, Chair; Carlos Risco, Vice-Chair; Jack Smith, ACT Secretary; Patricia Sertich, Brian Whitlock, and Julie Cecere.

The Committee spent most of the time in Ohio reviewing exam questions to assure a balanced, comprehensive and fair examination. The entire exam was reviewed and edited and the pass point was determined.

Also during the January meeting and since then, Drs. Coutinho da Silva and Kutzler have been working with Robert Malinowski of ExamSoft to transfer all of the questions from the SMT bank to the ExamSoft bank as well as change the format of the 2017 Certifying Exam into an electronic exam that will be delivered via ExamSoft. Led by Dr. Cecere, a mapping key was created on the final afternoon of the meeting to be used in new ExamSoft system.

In addition, Dr. Kutzler updated the ACT Exam Committee Policy Manual to reflect new procedures required with the electronic testing method.

And lastly, Dr. Ahmed Tibary has been selected as the new member of the Exam Committee, to replace Dr. Marco Coutinho da Silva. Dr. Cecere has accepted the nomination and will start her duties in the Committee after the annual Therio Conference at the beginning of August 2017. Dr. Coutinho da Silva is finishing his term and will be leaving the Committee this year. We are grateful for all his contributions to the Committee, his leadership, friendship and humor.

The 2017 Certifying Exam will be given on August 1-2, 2017 prior to the SFT/ACT annual Therio Conference in Fort Collins, Colorado. The January 2018 ACT Certifying Exam Committee meeting will be held at the Allam House on the New Bolton Center campus from January 2-6. Lodging reservations have already been obtained by Dr. Sertich.

Sincerely,



Michelle Anne Kutzler
ACT Certifying Examination Committee Chair

REGISTER TODAY!



Therio Conference
2017 Ft. Collins | August 2-5
www.therio.org

2017 Scientific Information/Abstract Committee Report

We want to thank all authors for their support and contributions to the scientific program of the annual meeting of the Society for Theriogenology and American College of Theriogenologists. We received 80 abstracts for consideration in the following categories:

35 Competitive Abstracts
24 Non-competitive Abstracts
7 Case Report Abstracts
14 Poster Abstracts

Abstracts were scored blindly by all members of the Committee (except where a Committee member authored or co-authored a given abstract). The eight competitive submissions with the highest scores were selected for oral presentation, which will also be scored to select the winners during the Dr. Jerry Rains Memorial Abstract Competition session. From the rest of the submissions, the eight abstracts with the highest scores will be presented during the Opening Session. In addition, the following species-specific sessions were organized:

Equine (2 h): 8 abstracts
Canine (2 h): 6 abstracts
Production animal (2 h): 8 abstracts
Large Animal (2 h): 8 abstracts

Due to the large number of submissions and the limited time available for oral presentations, many of the abstracts will be presented during poster sessions. We have also experienced an increase in the number and quality of abstracts submitted for poster presentation. The Society for Theriogenology made a significant effort to accommodate the increasing number of posters, and we are pleased to have three poster sessions organized throughout the meeting this year. We thank the SFT and Franz Management for making this happen. All abstracts will be published in Clinical Theriogenology.

The current members of the Committee are Drs. Celina Checurea, Maria Soledad Ferrer, Carlos Pinto, Fernando Campos-Chillon, Jeannine Woods and Juan Romano. Drs. Checurea and Campos-Chillon will end their terms this summer, and Drs. Julie Gard (4-year term, biotechnology expertise) and Camilla Scott (2-year term, equine expertise) will be joining the Committee.

I would like to thank all the members of the Scientific Abstract Committee for their hard work scoring and editing all these abstracts in a professional, collegial and timely manner. A special thanks goes to Charles Franz and Tara Beasley from Franz Management for their valuable help and support. On behalf of the Scientific Abstract Committee, I would like to extend a warm invitation to everyone to attend the oral and poster sessions, interact with the authors and learn about their exiting work. Some authors elected to communicate their scientific discoveries, others elected to share their experience with challenging clinical cases. They are all making valuable contributions to our specialty, and we thank them for choosing this venue to share their work.

Many thanks,

Maria Soledad Ferrer DVM, MS, DACT
Scientific Abstract Committee Chair

Dr. Pat McCue

2017 Theriogenologist of the Year

sponsored by Merck Animal Health



Dr. McCue graduated from veterinary school at the University of California, Davis, in 1986. He subsequently completed an internship in large animal medicine and surgery at the University of Pennsylvania and a residency in equine reproduction at the University of California, Davis. Dr. McCue became board certified with the American College of Theriogenologists in 1991. He received a PhD in

comparative pathology, with an emphasis on reproductive endocrinology and ovarian pathology in the mare, from UC-Davis in 1992, and joined the faculty at Colorado State University in 1994.

Dr. McCue teaches the core course in theriogenology to veterinary students as well as advanced courses and clinical rotations in equine theriogenology. He also coordinates the clinical stallion, broodmare, foaling and embryo transfer services at the Equine Reproduction Laboratory, Colorado State University and attends to dystocias, high risk pregnancies and other equine reproduction cases at the university's Veterinary Teaching Hospital.

He is the author or co-author of five books and over 300 refereed publications, textbook chapters, scientific proceedings chapters and abstracts. He has written a total of 155 monthly columns called "The Breeding Shed" for the American Quarter Horse Journal since 2003.

In addition, since 2011, he has given 62 lectures as an invited speaker at international conferences, 55 at national conferences and 26 at state or local conferences. He also gives approximately 24 lectures annually in Continuing Education courses for veterinarians and horse owners at Colorado State University.

Call for nominations for 2018 Theriogenologist of the Year

Nomination due date - **November 11, 2017**

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.

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 2018 and 2019, respectively. Beginning in 2014, the decision was made by the ACT Board of Directors to initiate online voting. Please **complete the ballot by June 15, 2017**.



Vote and you could win!

Sign in to the ACT site, then click the link below or place the ballot link in your browser. (http://www.theriogenology.org/surveys/?id=2017_Ballot)

You will be allowed to vote one time only. Your vote is completely confidential. There will be a random drawing of the individuals who vote in the officer/board elections for a non-transferable prize of a complimentary therio meeting registration within three years of the award. Vote today for your chance to win!

Vice President nominees



John Dascanio - Dr. Dascanio is a graduate of the University of Pennsylvania and completed an internship and residency program at Cornell University. He currently serves as the treasurer for the American College of Theriogenologists. He has worked with others to establish stable funding for the next few years for the Theriogenology Foundation and has initiated a change in the

ACT investment policy so that they can diversify investments to match or exceed the inflation rate and thus maintain their reserve funds. He is also assisting the ACT to investigate a Learning Repository for banking of electronic educational materials for use by students, educators and veterinarians. Dr. Dascanio has served on the ACT Nominations Committee, the ACT Student Liaison Committee and was the past chair of the ACT Educator's Forum.

He recently started a theriogenology Facebook page to share clinical cases with students at Colleges of Veterinary Medicine to engage them in the theriogenology profession. He hopes to expand this to all CVM's, engage the SFT student chapter presidents as moderators and have theriogenology residents contribute some cases. He also co-wrote the "Equine Reproductive Procedures" text with Dr. Pat McCue. The education of veterinary students in theriogenology is one of his core values.

He has had a number of other leadership experiences to draw upon. He is a professor of theriogenology at Lincoln Memorial University College of Veterinary Medicine and the executive associate dean supervising the Office of Academic Affairs. He was the past president of the Northeast Association of Equine Practitioners and a past board member of the American Board of Veterinary Practitioners. He currently serves on the editorial board for the Clinical Theriogenology journal and the Equine Journal of Veterinary Science.

He sees a number of challenges that he believes must be addressed moving forward as a College, including: expanding residency training opportunities in all species; refining unified theriogenology learning objectives for veterinary students; engaging the next generation of

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students towards interest in our discipline; addressing the lack of diplomates teaching theriogenology in some veterinary colleges; bringing forward the voice of theriogenology for national/global animal health issues; managing recertification of diplomates; creating innovative continuing education programs and investigating new revenue streams.



Richard Hopper - Dr. Richard Hopper is a 1978 Auburn graduate. After almost 15 years of mixed, predominantly large animal practice in Oneonta, Alabama, he joined the faculty at Mississippi State and is currently a professor and head of the Food Animal Medicine, Theriogenology, and Ambulatory Section.

He has served as president of both the Mississippi Veterinary Medical Association and the Society for Theriogenology. He and his wife (Donna) have three children and three grandchildren.

A diplomate since 1995 via the alternate route and before that, a member of the SFT since graduation, he has both supervised residents and mentored practitioners through the alternate route. Also, during his tenure in academics, Mississippi State went from two theriogenologists, to a comparative service with four theriogenologists, a residency program, the provision of senior theriogenology electives and a multiple species case load. Dr. Hopper has served on and chaired numerous academic and organizational committees. Likewise, his service on both the SFT and Foundation boards provides an understanding of the interaction and interdependency of all three theriogenology organizations and the resultant synergy that is possible. He believes all these experiences provide a valuable perspective from which to approach issues that the ACT board will likely need to consider over the next three to four years.

A strong sense of allegiance to and affection for our specialty; he has a commitment to its continued growth and relevancy. That best describes his motivation with respect to his willingness to serve in this capacity.

Treasurer nominees



Leo Brito - Dr. Brito is originally from Brazil and is currently the global director of quality assurance at STgenetics and an associate editor of the journal *Clinical Theriogenology*. He became a diplomate of the ACT in 2004 and served on the Certifying Examination Committee from 2009 to 2015. More details of education and professional experience can be found at <https://www.linkedin.com/in/lbrito/>.

If given the opportunity to join the ACT board, his efforts will be focused on promoting the specialty through (1) support of marketing efforts with general public and veterinary students as key targets, (2) industry lobbying for support to student chapters and residency programs, (3) promotion of alternative business models built around theriogenology expertise and services, and (4) creation of support network for junior faculty interested in academic administrative roles. Dr. Brito is also interested in stimulating discussions about the term of the College presidency, as he believes the current system does not afford elected officials the opportunity to plan, develop, and implement comprehensive programs.

Jennifer Koziol - Jennifer Koziol, a native of Oklahoma, was raised on her family's cow-calf and stocker operation. She received her Bachelor of Science in 2009 and Doctor of Veterinary Medicine in 2012 from Oklahoma State University. Following graduation, Dr. Koziol accepted an



internship in comparative theriogenology at Iowa State University, where she honed her medical skills working with all species. After completing her internship she continued her formal training as a theriogenology resident at Auburn University. During her time in Auburn she sharpened her skills in all areas of reproductive medicine and surgery.

Dr. Koziol was accepted as a diplomate in the American College of Theriogenologists in 2015 and awarded a Masters of Biomedical Sciences in 2016. She was chosen as the Society for Theriogenology's Emerging Leader in 2015 and is a member of the Phi Zeta Honor Society.

Following completion of her formal training, Dr. Koziol joined the faculty at Purdue University where she is an assistant professor in theriogenology/production medicine. Her clinical interests focus on all aspects of large animal reproduction and medicine however she has a special interest in reproductive and orthopedic conditions in the bull. Dr. Koziol's research interests include studying *Tritrichomonas foetus* in the bull and cow and she aspires to find a new, legal treatment for this disease in North America.

Dr. Koziol feels that the future of our specialty college depends upon young diplomates taking an active interest in the organization by serving in leadership roles. This offers young professionals as herself an opportunity to learn from veteran diplomates while infusing the vibrancy of a younger generation into the organization. Serving as treasurer would allow Dr. Koziol the opportunity to act upon these beliefs while driving the organization towards continued greatness.

Board member nominees



Gail Colbern - Dr. Colbern received her DVM from UC Davis in 1982. She completed an internship in large animal medicine and surgery at University of Georgia, Athens and a residency and master's program in equine reproduction at Colorado State University, Fort Collins. She completed board certification in theriogenology in 1988.

During her residency, Dr. Colbern completed extensive research on management of transitional mares, equine endometritis, reproductive immunology and equine reproductive surgery techniques.

Upon completion of her residency, Dr. Colbern entered general equine practice in the Bay Area, Northern California. After four years of general practice, Dr. Colbern returned to research pursuits in reproductive immunology, through a post-doctoral fellowship at UCSF, and later, cancer immunology and cancer drug development. She was involved in the development of four major therapeutics currently being used to treat cancer in humans.

After retirement from research, Dr. Colbern returned to her roots of veterinary medicine and equine reproduction. She established the GreenSprings Veterinary Service, LLC, in Ashland, Oregon. Dr. Colbern works with all mammalian species. She supplies veterinary services to the underserved region of the Greensprings, large animal reproductive services to the entire Rogue Valley and veterinary relief services to other regional veterinary practices.

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Misty A. Edmondson - Dr. Edmondson is a native of Elmore County, Alabama where she grew up on a commercial cattle farm. She received a BS in microbiology from Auburn University in 1997 and DVM from Auburn University in 2001. She worked in a mixed animal practice in rural Alabama for two years before returning to Auburn University to complete a residency in food animal

theriogenology under the supervision of Drs. Bob Carson, Dwight Wolfe and Gatz Riddell. Dr. Edmondson became a diplomate of the American College of Theriogenologists in 2005 and completed her residency and MS in biomedical sciences from Auburn University in 2006. She joined the faculty at Auburn University's College of Veterinary Medicine in 2006 and is currently an associate professor in the food animal section.

Dr. Edmondson teaches in numerous courses (including theriogenology, reproductive anatomy, urogenital surgery, production medicine, and others) to veterinary students as well as clinical rotations in food animal medicine and surgery and advanced rotations in advanced beef production and advanced small ruminant medicine and surgery. She is also involved in theriogenology resident training through clinical instruction and graduate lectures and laboratories. Dr. Edmondson's clinical interests include infectious causes of infertility in ruminants (trichomoniasis and BVDV), urogenital surgery, advanced reproductive technologies and pain management.

Dr. Edmondson is also a member of the American Veterinary Medical Association, American Association of Bovine Practitioners, American Association of Small Ruminant Practitioners, American Veterinary Medical Association, Alabama Veterinary Medical Association, and the Alabama Cattlemen's Association. Dr. Edmondson has been actively involved in research in the area of bovine and small ruminant reproductive health and pain management. In addition, Dr. Edmondson has a deep passion for the beef industry and enjoys spending time giving lectures to lay audiences at industry-related meetings and conferences.



Herris Maxwell - Dr. Herris Maxwell received his pre-professional training at Mississippi State University and graduated from the Auburn University College of Veterinary Medicine in 1978. Following a one year rotating food animal internship at the University of Missouri, he entered private practice in Columbia, Mississippi. While in practice he provided services to large and

small animal species, with most of his time spent with the large animal segment of the three veterinarian practice.

During 26 years in private practice, Dr. Maxwell maintained a strong interest in comparative theriogenology, focusing continuing education efforts in that discipline. In 1999, he became a diplomate of the American College of Theriogenologists by the alternate (practitioner) route. In 2005, he joined the faculty of the College of Veterinary Medicine at Auburn University, where he continues as a clinical professor.

Past service to the discipline includes two terms as a member of the executive board of the Society for Theriogenology, three years as treasurer of the Society, followed by service as vice president, president elect, president and past president. From 2002 until 2008 he was a member of the Certifying Examination Committee of the American College of Theriogenologists, serving as chair in 2007.



Clare Scully - Dr. Clare Scully is currently an assistant professor of food animal medicine and surgery in the department of Veterinary Clinical Sciences at the Louisiana State University School of Veterinary Medicine. In 2005, Dr. Scully left her home in Ireland and a career in public relations to pursue a veterinary career. She graduated with her DVM in 2011 and completed a food animal

rotating internship in 2012 at the University of Tennessee College of Veterinary Medicine. During this time, she realized her ultimate goal was to become a theriogenologist. Dr. Scully completed her theriogenology residency, a Masters of Veterinary Sciences at Oregon State University College of Veterinary Medicine in 2015, and achieved board certification in theriogenology in 2016. Bovine advanced reproductive techniques, pain management in food animals and transcervical insemination in goats are her specific areas of interest. Her research has focused on sterilization of feral horses, the effects of in utero androgen exposure on ram lambs and small ruminant semen collection methods. Her future research will focus on the effects of nutrition on embryo transfer in dairy cattle. She has published in the field of ruminants, small animal, equine reproduction and has an appreciation for all aspects of theriogenology. She attributes all of her success to the mentors she has had in her life and is eager to serve others in a mentorship capacity.

ACT Honorary Member nominee



Dr. Phillip Sponenberg - Dan Phillip Sponenberg attended veterinary school at Texas A&M and graduated in 1976 Magna Cum Laude. He then pursued post graduate education in genetics and pathology at Cornell. Studying under Dr. McEntee he began a very successful career in reproductive pathology and genetics at Virginia-Maryland College of Veterinary Medicine in 1981. During his tenure

as professor, he authored 11 books, 105 peer reviewed journal articles, and 418 lay publications related to reproductive pathology, pathology, genetics and breed conservation. To date he has over 800 publications to his name related to these fields. He has presented at the SFT/ACT conference and trained many pathologists and theriogenologists at VMCVM and abroad. He is an integral part of the education of VMCVM students, residents and colleagues, as well as a valuable educational resource for clinical cases, research projects, and career development. In 1990 he developed the only reproductive pathology course offered on the VMCVM campus. This course is always popular, but also a requirement for pathology and theriogenology residents. Dr. Sponenberg also assists in our theriogenology resident's board preparation for both the practical and written examinations. Most notably he has served as the technical advisor to The Livestock Conservancy since 1978. He has given numerous invited presentations around the world about reproductive pathology, breed conservation and breeding for healthy populations. He is well known in rare breed circles and is the foremost expert in preserving rare genetics. He has helped counsel breed groups on the conservation of numerous breeds on the endangered, threatened or watched list worldwide. Currently he is the leading expert on The Spanish horse and its descendants in the Americas as well as the Tennessee Myotonic Goat breed. He resides with his wife in Blacksburg, Virginia at Beechheld Farm. When not travelling around the world saving rare breeds he is busy preserving his own lines of Choctaw horses, Fainting Goats, Karakachan Dogs, and Brahma chickens.

Theriogenology Foundation

2017 fundraising events

Update from the 2017 TF Silent Auction Committee - 2017 Silent Auction items NEEDED!!!

The passing along of boutique items from colleague-to-colleague through the silent auction has become a signature event of our annual conference. Due to on-site limitations, we are capping our auction to the top 25 generous donations which best represent the following categories:

*Educational items (text books, etc.)

*Arts and crafts

*Liquor/wine

*Sporting events

*Veterinary equipment

Once you decide on what your priceless creation or generous gift will be, please e-mail the [donation form](#) along with pictures of the item(s) by June 15th, 2017 to Dr. Joann Randall at drjo@animalhospitalofwoodstock.com. Get your donation into the spotlight by submitting early...the final item list will be posted on the TF website by July 1 so the membership has time to start saving their dollars to bid! After 25 items have been selected, we will respectfully ask you to hold your gift until 2018! **No on-site donations can be accepted this year.**

Thank you for your continued support of the Theriogenology Foundation Silent Auction!!!

BE FUN! BE CREATIVE!!!

Live Auction

The TF Live Auction will be held immediately following the Therio Awards Dinner on Friday, August 4. You do not have to attend the dinner to attend the Auction. Auction items can include trips, educational experiences, jewelry items, events, specialty locale or even surprise items. Your auctioneers for the evening will be Mr. Ron McDaniel and a guest auctioneer. The number of items being auctioned will be limited this year. If you are unable to attend, you can still bid on auction items. Online sealed bidding is available for both Silent and Live Auction items at www.TherioFoundation.org. Items will be posted on the TF website, so get a sneak preview and place your bid!



Craft beer tasting

During the Opening Session Reception Wednesday evening August 2, the Opening Reception in the Exhibit Hall on Thursday, August 3 and Fun Night at the Fort Collins Museum of Discovery, attendees will have the chance to experience some Fort Collins brewed craft beers, and help the Theriogenology Foundation at the same time. For \$40 you will receive four samples of beer. Once you have sampled and chosen your favorite, you will get a full serving of that beer. Proceeds will benefit the Theriogenology Foundation. Tickets are available through online conference registration or onsite at the registration desk.

Raffle tickets

Always a hot item, raffle tickets are on sale again this year to raise money for the Theriogenology Foundation and the winner will receive a free conference registration for 2018 (in Milwaukee, Wisconsin, August 1-4). Three nights of the winner's hotel will be paid for at the lovely Hilton Milwaukee City Center, along with a travel stipend. The winner will also receive one Therio Awards Dinner ticket. This investment may be tax deductible. Tickets are available now through the TF website, or through the Therio Conference office. Only 200 tickets will be sold, so get yours before they disappear! The drawing will be held at the Therio Awards Dinner on August 4, in Fort Collins. Remember – you do NOT have to be present to win!

Can't make it to the auction?

**You can still bid on your favorite items using the
online sealed bid form.**

If you are unable to attend the Therio Conference this year, or unable to attend the Awards Dinner and Live Auction on Friday night, please consider submitting a sealed bid so that you may still participate in the fun and excitement. Sealed bids are accepted on either Silent or Live Auction items. Please complete the sealed bid form on the TF website (<http://www.theriofoundation.org/sealedbidform>) by July 24 to secure your bid. Items will be posted online and updated as submitted. Any questions, please call 334.395.4666 and we will be happy to assist you.

Click the links below for 2017 Therio Conference news and registration information!

[Conference news](#)

[Conference registration](#)
Early bird rates end July 1!

[Hotel registration](#)
Hilton Fort Collins
Reduced room rate cutoff July 1!
Use group code ASO

[Buy a raffle ticket](#)

2017 Therio Conference special events

Veterinarian Equine Embryo Transfer Symposium and Wet Lab
sponsored by Professional Embryo Transfer Supply, Inc.

ACT Educator's Forum
sponsored by the Theriogenology Foundation

Opening Session Abstracts

Student Equine Wet Lab
sponsored by Sonosite - A Fujifilm Company
additional support by Professional Embryo Transfer Supply, Inc.

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

Theriogenologist of the Year Award
sponsored by Merck Animal Health

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

SFT Business Meeting

ACT Business Meeting

Student Case Presentations

Exhibit Hall Opening Reception

Theriogenology Foundation Craft Beer Tasting

Fun Night at the Fort Collins Museum of Discovery
sponsored by Zoetis and Merck Animal Health

Student Quiz Bowl
sponsored by Merck Animal Health

Student T-shirt Contest
sponsored by Bovine Services, LLC

SCOTY Award

Plenary speaker Dr. Cheryl Asa
sponsored by American College of Theriogenologists

Plenary speaker Dr. Kevin Fitzgerald

Theriogenology Foundation Silent Auction

Annual Awards Dinner Reception

Annual Awards Dinner
sponsored by Aurora Pharmaceutical
and Merck Animal Health

Dr. John Steiner Award for Practitioner Excellence

Theriogenology Foundation Live Auction

2017 Therio Conference schedule

Equine Symposium and Wet Lab:

Wednesday, August 2, 2017

Equine Embryo Transfer Symposium and Wet Lab

Veterinarians - additional cost, limited seating

sponsored by Professional Embryo Transfer Supply, Inc.

This one-day course on equine embryo transfer will provide veterinarians with four (4) hours of lecture and four (4) hours of practical laboratory experience from some of the world leaders in equine embryo transfer. Lectures will include donor mare management, embryo collection procedures, embryo evaluation, recipient mare management, non-surgical transfer of embryos and vitrification. Laboratory experiences will include embryo collection techniques, handling of embryos (using bovine IVF generated embryos and microspheres), evaluation of embryos, cooled-transport of embryos, non-surgical transfer of embryos and vitrification.

ACT Educator's Forum:

Wednesday, August 2, 2017

sponsored by the Theriogenology Foundation

Theriogenology curriculum for every veterinary student - How to determine what's important?

Theriogenology curriculum: Proper item writing

Collaborative research and residencies across universities

Student Wet Lab:

Thursday, August 3, 2017

Student Equine Wet Lab - additional cost, limited seating

sponsored by Sonosite - A Fujifilm Company

additional support by Professional Embryo Transfer Supply, Inc.

The goal of this one-day course is to provide veterinary students with an opportunity to learn about common reproductive procedures performed in equine clinical practice. Laboratory sessions will provide hands-on opportunities for semen collection, semen evaluation and processing, palpation and ultrasonography of the mare reproductive tract, collection and interpretation of common uterine diagnostics, and uterine lavage and intrauterine infusion for management of endometritis. To allow for a full day of wet labs, a series of online modules will be available to review the procedures that will be performed in the lab.



Vote and you could win!

Vote on your ACT officers and directors. Sign in to the ACT site, then click the link below or place the ballot link in your browser. ([http://www.theriogenology.org/surveys/?id=2017_Ballot.](http://www.theriogenology.org/surveys/?id=2017_Ballot))

You 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. There will be a random drawing of the individuals who vote in the officer/board elections for a non-transferable prize of a complimentary therio meeting registration within three years of the award. Vote today for your chance to win!

2017 Therio Conference schedule

Pre-registration savings expire July 1, 2017

Plenary speakers:

Friday, August 4, 2017

Non-surgical methods for reproductive management of captive and free-ranging wildlife populations Cheryl Asa, BA, MS, PhD

Denver Zoo, Mongolia Project: Effects of progress upon endangered species Kevin Fitzgerald, DVM

Small Animal sessions:

Friday, August 4, 2017

Using amphibians and reptiles as sentinels for environmental toxins: If we save the frogs, maybe we can save ourselves Kevin Fitzgerald, DVM

Current status of canine herpesvirus infections in the USA Sanjay Kapil, DVM, PhD, DACVIM

Updates from the AKC-AKC CHF-TF Companion Animal Residency Programs and Research from Auburn University, North Carolina State University, Ohio State, and PennVet. . .Carla Barstow, DVM; Karen Von Dollen, DVM; Tessa Fiamengo, DVM; Victor Stora, DVM

Saturday, August 5, 2017

IVF in the dog: recent advancements and future directions Jennifer Nagashima, BS, PhD

Look sharp! Acupuncture in canine reproduction Joni Freshman, DVM, DACVIM

Bugs and drugs- Appropriate use of antibiotics in canine reproduction Joni Freshman, DVM, DACVIM

26,000 Whelpings- The high points and high risk success stories! Karen Copley, RNC, BSN

Prospective analysis of gonadectomy, overweight/obesity and the risk for non-traumatic orthopedic injury Missy Simpson, DVM, PhD, Epidemiologist

How titer testing can help fine tune your puppy vaccination program Laurie J. Larson, DVM

Using DNA panel testing to increase genetic fitness in dogs and cats by improving genetic diversity and limiting genetic disorders Angela Hughes, DVM, PhD
sponsored by Mars Veterinary

Equine sessions:

Friday, August 4, 2017

sponsored by Rood and Riddle Equine Hospital and Veterinary Pharmacy

Effects of age and metabolic disease on the oocyte and early embryo Elaine Carnevale, MS, DVM, PhD

Clinical perspectives in the problem mare Patrick McCue, DVM, PhD, DACT

Practical diagnostics and therapeutics in endometritis Ryan Ferris, DVM, MS, DACT
sponsored by Aurora Pharmaceutical

Saturday, August 5, 2017

sponsored by Rood and Riddle Equine Hospital and Veterinary Pharmacy

Equine embryo transfer: Current perspectives Patrick McCue, DVM, PhD, DACT

How to add oocyte collection to your practice Maria Schnobrich, VMD, DACT

Clinical perspectives on oocyte aspiration in a private practice Maria Schnobrich, VMD, DACT

Clinical perspective on ICSI in a private practice Rob Foss, DVM

Advances in semen cooling and cryopreservation James Graham, PhD

Collection, management and distribution of frozen semen Paul Loomis, MS

Clinical perspectives on the stallion Paul Loomis, MS

Production Animal sessions:

Friday, August 4, 2017

sponsored by Lane Manufacturing, Inc.

Swine reproduction and management, sexing boar semen and deep horn insemination Don Sanders, DVM, DACT

Food animal theriogenology - Creating a brand that keeps producing Isaac Bott, DVM

Reindeer reproduction and veterinary care Isaac Bott, DVM

Saturday, August 5, 2017

sponsored by Lane Manufacturing, Inc.

Camelid infertility Alexis Campbell, DVM

Embryo transfer in camelids Alexis Campbell, DVM

Reproductive ultrasound of the cow for practitioners Jill Colloton, DVM

Bull preputial injury management Gary Warner, DVM

Bull urolithiasis management Gary Warner, DVM

Bovine reproductive diseases related to nutrition Don Sanders, DVM, DACT

Toxicities affecting bovine reproduction . . . Don Sanders, DVM, DACT

Conference attendance plus the pre-conference Veterinarian Equine Embryo Transfer Symposium and Wet Lab offers 34.7 hours of CE credit, with a total of 71.3 CE hours to choose from. Symposium and Wet Lab seating is limited and additional fees apply. Visit www.therio.org for details or call the Therio Conference office at 334-395-4666.

2017 Abstract presentations

August 2, 2017 - Opening Session abstracts

- Jared Oldham, BS Effect of ovulation synchronization with or without progesterone supplementation and pubertal status of beef heifers on reproductive performance
- Maria S. Ferrer, DVM, MS, DACT Effect of seminal plasma and equilibration time on post-thaw quality of bovine semen
- Raul Gonzalez -Castro, DVM, MS, Phd Candidate Association of bovine sperm WW domain-binding protein with capacitation status and head morphology
- Bruna da Rosa Curcio, DVM, MsC, PhD Serum amyloid A concentrations and correlations with sepsis scores in newborn foals born from mares with experimentally with experimentally induced placentitis
- Igor Canisso DVM, MSc, PhD, DACT, DECAR. pH from mammary gland secretions is acidic at the time of parturition but remains neutral during the first week postpartum in mares
- Jennie D. Haan, MS, DVM, cVMA. A comparison of the effects of carbon dioxide and medical air for abdominal insufflation on respiratory parameters in sheep undergoing sedated laparoscopic artificial insemination
- Mariana Diel de Amorim, DVM, DVSc, DACT. Serum and placental oxytocinase activity in healthy late pregnant and postpartum mares
- Samantha Patterson, AS, BA, LVMT Effects of acute and chronic infusion of kisspeptin on luteinizing hormone and follicle stimulating hormone in prepubertal bulls

August 3, 2017 Competitive Session abstracts

- Raphael Malbrue, DVM Pharmacokinetics of oral micronized progesterone and intravaginal progesterone administration in the bitch
- Bryan Blawut, BS Use of hypertonic extender to cryopreserve sauger (*Sander canadensis*) spermatozoa
- Jamie Stewart, DVM, MS Exogenous nerve growth factor- β improves corpus luteum function and enhances conceptus development in cattle
- Tessa Fiamengo, DVM Evaluation of biofilm production by *Escherichia coli* isolated from clinical cases of canine pyometra
- Gabriel Monteiro Davolli, DVM, MS. Concentrations of sulfadiazine-trimethoprim in serum and endometrium of mares treated with an oral suspension
- Lauren Schmidt Reproductive parameters of white-tailed deer (*Odocoileus virginianus*) bucks
- Chase Staker Holstein heifer behavior in self-locking stanchion at fence-line mangers and its impact on reproductive performance
- Jerimyah Johnson, BS Effect of two anthelmintic agents on parasitic load, body condition and reproductive performances of beef cows

August 4, 2017 - Small Animal abstract presentations

- John Watts BVSc (Hons), PhD, MANZCVS,
Diplomate ECAR Hypertrophic osteopathy in a castrated dog with prostatic carcinoma and prostatitis
- Alyssa Cornelius, BS The canine vaginal microbiome and associations with puppy survival
- Shawn L. Chavez, PhD Cross-species comparison of chromosomal instability during mammalian pre- implantation development
- John Watts BVSc (Hons), PhD, MANZCVS,
Diplomate ECAR The use of bipolar clamps for neutering in small animal practice
- Audrey A. Kelleman, DVM, DACT. Ovarian cyst, mastitis, pyometra, and cardiac disease in a German shepherd dog
- Alyssa Ettinger. Normal and neoplastic canine lymphocytes express luteinizing hormone receptors

2017 Abstract presentations

August 4, 2017 - Production Animal abstract presentations

- Heidi F. Holland, DVM. Comparison of serum estradiol, progesterone and luteinizing hormone concentrations, follicular development and timing of ovulation in dairy heifers treated with 4- or 5-day CoSynch+CIDR protocols
- Hayder Mohammed Hassan Habeeb, MS. A 5 ml dose PG-600® is detrimental to ovarian function and pregnancy rate in ewes during the breeding season
- Julie Gard, DVM, PhD, DACT Evaluation of diagnostics for ante-mortem testing of ovarian follicular dysplasia (OFD) in cattle
- Emily Sitko. Longitudinal study of metritis risk in dairy cattle
- Caitlin E. Wiley, DVM Effects of endogenous progesterone during ovarian follicle superstimulation on embryo quality and quantity in beef cows
- Dinesh Dadarwal, BVSc & AH, PhD. Endometrial cytokine gene expression in normal versus endometritic post-partum dairy cows
- Jennifer N. Roberts, DVM, DACT. Flotation therapy for management of calving paralysis following dystocia in a Piedmontese cow
- Fabio Lima DVM, MSc, PhD Uterine microbiome, antibiotic resistance genes and virulence factors of metritic treated cows that cure or failed to cure from metritis

*Presented by Igor Canisso DVM, MSc, PhD, DACT, DECAR

August 4, 2017 - Large Animal abstract presentations

- Jennifer N. Roberts, DVM, DACT. Performance of the IDEXX Rapid Visual Pregnancy Test for pregnancy diagnosis in sheep
- Melissa J. Prell, DVM Evaluation of 48 hour cooled-storage after thawing frozen stallion semen frozen
- Rachael Ambrosia Porcine and recombinant zona pellucida vaccines as immunocontraceptives for donkeys in the Caribbean
- Rochelle Jensen BVSc, DACT Adenoviral vectored gonadotropin releasing hormone vaccine for temporary estrus suppression in mares
- Lorenzo Garrido Segabinazzi, MS Uterine clinical findings, fertility rate, leucocyte migration and amount of COX-2 protein in endometrial tissue of susceptible mares treated with PRP at different moments of oestrous cycle
- Stephanie Lucie Bourgon, BSc, MSc Sexual development, productivity and reproductive abnormalities in yearling beef bulls
- Maria Raymond Schnobrich, VMD, DACT Next generation DNA sequencing, culture and cytology results in 10 clinically normal mares
- Jennifer N. Hatzel, DVM, MS, DACT Effect of repeated small follicle oocyte collections on the follicle population and gross ovarian changes in mares

August 4, 2017 - Equine abstract presentations

- Dirk K. Vanderwall, DVM, PhD, DACT Effect of human chorionic gonadotropin (hCG) treatment on the duration of oxytocin-induced prolonged corpus luteum (CL) function in mares
- Robyn Ellerbrock, DVM, DACT Enrofloxacin and its active metabolite (ciprofloxacin) cross the equine placenta and do not cause lesions in the fetal articular surface and growth plates
- Christina Negretti Serum and hair testosterone concentrations do not differ in stallions between social ranks
- Emily Ligon, BS Validation of a fixable stain for assessing viability of stallion sperm
- Elizabeth S. Metcalf, MS, DVM, DACT Comparison of maturation, cleavage and blastocyst rates in equine oocytes recovered by transvaginal aspiration from estrogen-subordinate follicles versus non-estrogen-subordinate follicles
- Bruna da Rosa Curcio, DVM, MsC, PhD Duration of gestation in Thoroughbred mares kept under tropical and subtropical climate
- Laura Anne Swift, MPH. Randomized comparative trial of electro-acupuncture and exercise versus uterine ecbolics in the treatment of persistent post-breeding endometritis in mares
- Yunwei Xia. Metagenomic analysis of the equine placental microbiome

2017 Poster session

August 3, 2017 - Abstract poster presentations

Swanand Sathe, BVSc, MVSc, MS, DACT Metagenomic sequencing of the uterine microbial environment during estrus and early pregnancy in mares

Bruna da Rosa Curcio, DVM, MsC, PhD Estradiol cypionate aided treatment for experimentally induced ascending placentitis in mares

Marco A. Alvarenga, DVM, PhD. Effect of flunixin meglumine, meloxicam and firocoxib on equine embryo mobility

Katrina M. Brickner Effect of chronic NSAID administration on ovulation in mares

Kristina Glapa, BS. Comparison of blood progesterone values obtained from an in-house one hour enzyme linked fluorescent immunoassay (ELFA) or radioimmunoassay (RIA)

Firdous A. Khan, BVSc, MVSc Qualitative differences in the uterine luminal fluid proteome between normal mares and mares with endometritis or endometriosis

*Presented by Tracey Chenier

Melissa J. Prell, DVM Thawing straws of frozen stallion semen directly in a 37° C water bath versus inside a plastic bag within the water bath

Brittany D. Palmer, BS. Progesterone evaluation in mares: comparison between endocrine laboratories

Raul Gonzalez-Castro, DVM, MS, Phd Candidate Effects of thawing rate and three extenders on refreezing of equine semen for intracytoplasmic sperm injection

Renata Cristina Uliani Experimental validation of AMH as a quantitative marker of ovarian follicular reserve using unilateral ovariectomy in mares

*Presented by Marco A. Alvarenga, DVM, PhD

Mariana Garcia Kako Rodriguez, MsC Acceleration and deceleration of fetal cardiac frequency during the last week gestacional of santa inês ewes: preliminary results

*Presented by Dr. Wilter Ricardo Russiano Vicente

Priscila Del Aguila da Silva, PhD student. Acoustic radiation force impulse (arfi) elastography in ovine fetal liver

Nelson Prieto Cervicitis in postpartum dairy cows

*Presented by Réjean C Lefebvre DMV, PhD, DACT

Bruna da Rosa Curcio, DVM, MsC, PhD Pharmacokinetics of enrofloxacin and its active metabolite (ciprofloxacin) in late-term pregnant and post-parturient mares – preliminary results

2017 Poster session

August 4, 2017 - Abstract poster presentations

- Chelsie A Burden, DVM, MS, DACT Controlled manual removal of fetal membranes in the horse: a case based application
- Kelli Beavers, DVM Management of twin pregnancies by umbilical and fetal oscillation in the mare
- Katrina Hiebel. Acupuncture increases matrix metalloproteinase type-2 immunoexpression and tissue concentration in bovine caruncles after calving
- Stefanie M. Gayer, BS. Clinical evaluation of leukocyte esterase as a means of detecting endometritis in the mare
- Julie Baldrighi, DVM, MS, PhD Evaluating the efficacy and safety of silicone O-ring Intrauterine devices as a horse contraceptive through a captive breeding trial
- Hannah Manning, BSc Using behavior to time initiation of oxytocin administration to prolong luteal function in mares
- Eleonore Jousnisson, DVM, IPSVA Morphological evaluation of the stallion spermatozoa through three staining methods
*Presented by Mouhamadou K. Diaw, DVM, MS, DACT
- Ruby Yoana Murcia, DVM. Expression of maturation-associated genes in equine cumulus cells during in-vitro maturation is affected by the ratio of oocyte-cumulus complexes to medium
*Presented by Mouhamadou K. Diaw, DVM, MS, DACT
- Susan Button, BS Management of extreme form of uterine torsion in a doe: A case report
- Susan Button, BS Hydrops and unusual placentation in a mare: A case report
- Brandi Roberts. Lactational anestrus in Caribbean donkeys
- Jordan Kiviniemi-Moore, DVM. Clinical findings in a warmblood mare following intrauterine infusion of the commercial preparation of enrofloxacin (Baytril®)
- Agustin Ruiz, DVM Ejaculate quality evaluation and freezing ability in a hemi-castrated stallion following spermatic cord torsion
- Kimberly Abernathy-Young, DVM Collection of stallion using XL human latex condom
- Etta A. Bradecamp DVM, DACT, DABVP Diagnosis and surgical removal of uterine masses in two mares
- Justin W. McNaughten, BVMS, DACT Use of oxytocin to prevent return to estrus in a mare post-breeding
- Kim Gleason, PhD. Time of breeding can influence cria gender ratios in alpacas
- Celina M Checura, DVM, MS, PhD, DACT Use of the prostaglandin E1 analog misoprostol to hasten oviductal transport of equine embryos
- Stephanie Guice. Equine cooled-semen shipping container effectiveness comparison



Everyone's talking about those Residents!

When the AKC/TF Companion Animal Residency Program was first launched in 2014, it was an exciting boost to theriogenology. Residents succeeded in building their clinical/surgical repertoire, engaged in teaching/research and ultimately fulfilled the requirements necessary to achieve ACT diplomate status. Colleges reported increased caseloads to their teaching hospitals and expanded their community outreach to canine fanciers and breeders. But department heads clamored for better application guidelines and, due to a mismatch in budget cycles, universities were unable to coordinate with the VIRMP (Veterinary Internship & Residency Matching Program). We knew the concept was a home run, but it lacked the framework to sustain and succeed. So we fixed it.

We are pleased to report that we have received approval for funding for two AKC/AKC CHF/TF Theriogenology Residencies with an emphasis on canine medical genetics per year for the next three years (2018, 2019 and 2020). These grants will be managed by the AKC CHF. A Request for Proposals (RFP) will be issued in May, 2017 in order to meet the timelines that will allow for funding decisions for schools to enter the residency match. This RFP will include a residency application link which details the questions and supporting documents necessary for submission. Applications received by June 14, 2017 will be reviewed by a panel which will return a decision by August 1, 2017. The first two residencies determined by this process will begin in July 2018. The Foundation is greatly appreciative to the AKC and AKC CHF for their insight and diligent effort necessary to bring this residency to a structured and secure path. We applaud their commitment to invest in the training of theriogenologists who will ensure the health and well-being of purebred and purpose-bred dogs. And we hope that the spirit of partnership that started this residency program will extend to other opportunities which advance the discovery and management of canine reproductive health.

I can assure you that none of this is fake news.

Thank you all for your continued enthusiasm for the Theriogenology Foundation!

Anita Migday
 President, Theriogenology Foundation

C-BEST Report - 2017 Michigan State

The Theriogenology Foundation was proud to sponsor the 2017 Canine Breeder Excellence Seminar Track at Michigan State University's College of Veterinary Medicine! This C-BEST seminar was hosted by the Michigan State University Veterinary Medical Center in East Lansing, Michigan on Saturday March 18, 2017.



The seminar was directed to dog breeders and owners, and provided information to better understand canine reproductive health and tools for successful breeding program. The seminar attracted 78 attendees, with six webinar participants. Speakers included Dr. Marty Greer, Dr. Will Schultz, Dr. John Wilson, Dr. Rick Kesler, Dr. Randy Carpenter and Mr. Ken Sunden. The seminar covered topics on canine reproduction, "cool" repro cases, brucellosis, neonatology, Penn Hip, OFA hips/elbows and new "puppy saving" techniques and equipment.

The Theriogenology Foundation extends a special thanks to Dr. Randy Carpenter and his team for coordinating the program and managing the onsite functions of the seminar. Thanks to everyone at MSU CVM for making this C-BEST a success! Registrations totaled \$5,967 for the Michigan State C-BEST, with 50% of the revenue over expenses going to the TF.



C-BEST Report - 2017 PennVet

The Theriogenology Foundation was proud to sponsor the 2017 Canine Breeder Excellence Seminar at PennVet's College of Veterinary Medicine on March 4, 2017.

This year's seminar was expanded to include not only Veterinary CE credits, but also AKC Bred with H.E.A.R.T. CE credits!

The seminar kicked off with keynote speaker Dr. Shelley Rankin's lecture on "Biosecurity." Other sessions included "Canine Dentistry" by Dr. Marie Buelow, "Vaccine Protocols and Controversies" by Dr. Margret Casal, "Pet First Aid" by Dr. Dana Clarke, "Female Fertility" by Dr. Carol Margolis, "Dystocia" by Dr. Samantha Souther and "Genetics for Breeders" by Dr. Victor Stora.

The seminar attracted 38 on-site and 10 webinar registrations. The Theriogenology Foundation extends a special thanks to Dr. Carol Margolis, Dr. Margret Casal and the PennVet team for facilitating the program and onsite management of the seminar. Thanks to all the support from the local team in collaboration with the TF management team, the total from registrations was \$3,330 with proceeds benefitting the Theriogenology Foundation and PennVet Section of Medical Genetics.

Thank you to our 2017 Therio Conference & Symposium sponsors

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Thank you!

A huge thank you to the following individuals for all their efforts in planning the 2017 Therio Conference.

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(Term expires August 2017)
Department of Veterinary Clinical Sciences
College of Veterinary Medicine
P O Box 647010
Pullman, WA 99164
Phone: (509) 335-6060
Fax: (509) 335-0880
Email: ramkasi@vetmed.wsu.edu

Dr. John Kastelic

President Elect

(Term expires August 2017)
University of Calgary
3330 Hospital Drive NW
Calgary, Alberta
T2N 4N1 Canada
Phone: (403) 210-8660
Email: j.kastelic@ucalgary.ca

Dr. Reed Holyoak

Vice President

(Term expires August 2017)
OSU Vet Med Teaching Hospital
Oklahoma State University
1 BVMTH
Stillwater, OK 74078
Phone: (405) 744-6656
Email: reed.holyoak@okstate.edu

Dr. Jack Smith

Secretary

(Term expires August 2019)
MSU CVM
P.O. Box 6100
Mississippi State, MS 39762
Phone: (662) 325-5505
Fax: (662) 325-4548
Email: smith@cvm.msstate.edu

Dr. John Dascanio

Treasurer

(Term expires August 2017)
Lincoln Memorial College of Veterinary Medicine
6965 Cumberland Gap Parkway
Harrogate, TN 37752
Phone: (865) 585-2846
Fax: (869) 465-1203
Email: dascanioj@gmail.com

Dr. Sara Lyle

Immediate Past President

(Term expires August 2017)
NCSU CVM
1060 William Moore Dr.
Raleigh, NC 27607
Phone: (225) 578-9613
Fax: (225) 578-9559
Email: skyle2@ncsu.edu

Dr. Karen Wolfsdorf

Director

(Term expires August 2017)
Hagyard Davidson & McGee
4250 Iron Works Pk
Lexington, KY 40511-8412
Phone: (859) 255-8741
Email: kwolfsdorf@hagyard.com

Dr. Sherrie Clark

Director

(Term expires August 2018)
Duckpond Drive - Phase II
Blacksburg, VA 24061-0442
Phone: (540) 231-9041
sherrie@vt.edu

Dr. Pat Phillips

Director

(Term expires August 2019)
ISU College of Veterinary Medicine VDPAM
1600 S. 16th St. College of Veterinary Medicine
Ames, IA 50011
Phone/Fax: (515) 294 4244
ovadoc@iastate.edu

Executive Offices of the College:

761 Tiger Oak Drive
Pike Road, AL 36064
Phone: (334) 395-4666
Fax: (334) 270-3399

Executive Director
Dr. Charles Franz
Charles@franzmgt.com

Chief of Staff
Dr. Brad Fields
brad@franzmgt.com

Director of PR/Communications
Linda Tynan
ltynan@franzmgt.com

Director of Meetings & Events
Tara Beasley
Tara@franzmgt.com

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Linda Cargile
linda@franzmgt.com

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