



AMERICAN COLLEGE
OF THERIOGENOLOGISTS

Newsletter

Spring 2016



Therio Conference
2016 Asheville | July 27-30

Reminder

Ballot deadline is June 30

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VOTE Now!

Log in at www.theriogenology.org then click
the link [http://www.theriogenology.org/
surveys/?id=2016Ballot](http://www.theriogenology.org/surveys/?id=2016Ballot).

Therio Conference news



From the President

Dear ACT Diplomates:

It has been another busy year for the Executive Board and the Training and Credentialing, Examination, and Scientific Abstract Committees. A number of changes will impact the ACT, particularly moving forward following adoption of the Maintenance of Certification requirement last fall.

Overall, the financial basis of the College remains sound. Expanded efforts of the Theriogenology Foundation (please see below) have created increased administrative costs, which the executive boards of both the ACT and the SFT have agreed to support. Consequently, the ACT EB determined it necessary to raise dues to \$275 for 2016. Dues have not been increased since 2013. The continued fiscal strength of the ACT depends upon membership dues. Your punctual response reduces costs, associated with repeated mailings and notices, is greatly appreciated. You may also pay dues directly on the ACT website (www.theriogenology.org).

The Training and Credentialing Committee continues to update the General Information Guide (GIG). The electronic ballot for Maintenance of Certification (MOC) passed

(168 for, 36 against) last fall. Participation in the process was excellent. To be an AVMA-recognized veterinary specialty implementation of a MOC program was required for certification as a Registered Veterinary Specialty Organization by the American Board of Veterinary Specialists. If you are not familiar with the details and would like more information on the MOC, the MOC can be viewed on the ACT website within the 2016 GIG. New Diplomates joining the ACT in or after 2016 will be subject to the requirements for MOC. The fine-tuning of the General Information Guide (GIG) is an ongoing effort that will help better define the credentials and training required for eligibility to undertake certification by the College. Current revisions are being distributed to the Listserv. I encourage you to consider these proposals carefully and vote when the electronic ballot is sent out.

During the 2014 general business meeting, the College adopted online balloting for business and elections with the goal to increase participation and reduce costs associated with mailings. Notifications are sent by email with instructions on accessing the balloting system. Unfortunately increased participation was initially not the case. Turnouts for electronic ballots during 2014 and 2015 were less than half that of 2013 (the last year of paper balloting) but were very strong for the MOC ballot. The EB hopes that you will continue to participate in the electronic balloting process in the future. If you encounter trouble with the system please let either myself, (sklyle2@ncsu.edu), or Franz Management know.

Your participation in the ACT is also vital to other activities and I encourage you to vote on the upcoming ballot for new officers. We have a slate of candidates for officers in the ACT that will maintain a diversity of experience,

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President *continued from p.1*

expertise and opinion representing the College on the Executive Board. Likewise, if you would like to participate in the standing or ad hoc committees in the College, please let me know (sklyle2@ncsu.edu).

A total of 35 candidates sat the exam in San Antonio in August 2015. Of these, 23 candidates successfully passed the examination; 21 of which have fulfilled all requirements for becoming a Diplomate in the ACT as of this writing. As you may recall, a requirement of the GIG for at least one publication (first year in effect was 2014) is needed in addition to passing the certifying examination. This pass rate is a dramatic improvement over the results of 2013 and 2014.

The number of abstracts submitted for consideration for presentation at the Annual Conference continues to be strong (59 for the 2016 conference), and the EB and the Scientific Abstract Committee are always considering ways to increase the number of abstracts presented at the Annual Therio Conference while maintaining high quality of material. We also continue to find ways to facilitate the poster sessions, and welcome your input concerning this endeavor. It is very encouraging to see continued interest and growth in this portion of the Annual Therio Conference.

As part of our 2014 Strategic Planning session, Genetics and Genomics was identified as an expanding horizon for the College. We are honored to have Dr. Joseph C. Dalton, a professor and extension dairy specialist in Animal and Veterinary Science at the University of Idaho, as a plenary speaker at our Annual Conference in Asheville. He will present the following talks: "Genetics and Genomics: An Introduction" and "Genomic and Fertility: Where are We Going, and When Will We Get There". In 2017, we will focus on our second expanding horizon, Population Control for Domestic and Non-domestic Animals, at the annual conference in Fort Collins, August 2-6, 2017.

The Theriogenology Foundation continues to increase their activities from the initial establishment in 2014 of the American Kennel Club/Theriogenology Foundation Companion Animal Residency in Theriogenology at the University of California-Davis, Auburn University and the University of Pennsylvania, supported by funding from the American Kennel Club – Canine Health Foundation. The, AKC and AKC-CHF in partnership with the TF will fund four residencies in 2016 at Auburn University, North Carolina State University, the Ohio State University, and the University of Pennsylvania. These residencies represent an important continued commitment for continued expansion of specialist training in companion animal Theriogenology. In addition, the TF continues to support student outreach and travel as well as research grants in a number of species. In 2015, the TF provided opportunities for Theriogenology residents and veterinary students to expand their knowledge in our specialty including student travel grants (\$4200), resident/internal travel grants (\$2250), research grants (\$5000), and ACT student outreach grants (\$1800). The TF partnered with UC Davis and PennVet to conduct Canine Breeder Excellence Seminars (C-BEST). In December, the AKC/Royal Canin/Theriogenology Foundation C-BEST was a part of the AKC/Eukanuba National Championship Show in Orlando, and so far have more than six planned for 2016. The continued support of the TF by members of the ACT and the Society for Theriogenology through the charity auction, raffle, donations and planned giving is a critical component for the TF in supporting its mission of advancing the science and practice of Theriogenology. For more details please see the latest issue of *THERiver* and the TF website (<http://www.theriofoundation.org/>).

We look forward to seeing you at the Annual Conference in Asheville on July 27 – 30, 2016!

Sara K. Lyle



In Memoriam

The American College of Theriogenologists fondly remembers the following members and Diplomates that have passed away since the 2015 spring newsletter:

Dr. Tracy Larsen Clark Sr., 84, of Ames, Iowa passed away peacefully Thursday, September 10, 2015, at Walnut Ridge Senior Living in Clive. Tracy was born October 2, 1930, in Woodville, Nebraska to James and Grayce (Larsen) Clark. He graduated from St. Edward High School in 1947, and was united in marriage to Kay Kimmel on September 28, 1954, in Lincoln, Nebraska. Tracy served in the United States Navy and in 1960, graduated from Kansas State College of Veterinary Medicine. Tracy and Kay made their home in Ames where he worked for Iowa State University as a Professor of Veterinary Medicine, specializing in large animals, retiring in 1993. He enjoyed square and round dancing, volunteering at Reiman Gardens and supporting Iowa State, traveling and spending time with his family. Tracy is survived by his wife of 61 years, Kay of Ames; his sons: Tracy (Mary) Clark Jr. of Playa del Rey, California, Ken (Julie) Clark of Waukee and Tom (Karleen) Clark of Glenwood Springs, Colorado; his daughter, Chris (Perry) Hadaway of Cambridge; nine grandchildren: Jared Clark, Aleah (Shawn) Siefkas, Chad Hadaway, David (Jessica) Clark, Tracy Clark III, Tony Hadaway, Chelsey Clark, Anna (Casey) Frey and Alex Clark; and his sister, Nancy (Gene) McPherson of Indianapolis, Indiana. Tracy was preceded in death by his parents; and his brother, Jim Clark.



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Dr. John C. Ramge, 97, died on Sunday November 29, 2015 at Otterbein Retirement Community in Cridersville, where had resided for many years.

John was born in Wapakoneta, Ohio on February 23, 1919, the son of Christian and Minnie (Melshing) Ramge who have preceded him in death. John married Elsie Brautigam in 1943 and she passed away in 2009.

They have three children, J. David (Beverly) Ramge of Houston, Elizabeth A. (Davis) Suskind of Solana Beach California, William Howard (Betty) Ramge also of Houston, a granddaughter: Anne Michelle Suskind, M.D. of San Francisco and a sister-in-law is Marjorie (Clarence) Dinnen of Jamestown, Ohio.

John was preceded in death by brothers Edward and Raymond, and by sisters Marie Taylor and Emily Burden.

John was a 1936 graduate from Blume High School in Wapakoneta and from The Ohio State University, where he received a Doctor of Veterinary Medicine (1942), Master of Science (1950), and Ph. D. (1955) degrees. He managed the Western Ohio Breeders Association, developed a Veterinary Medicine practice in Williamsburg, Ohio, taught at Ohio State University, and farmed (1955-1959) with his brother-in-law Harold Brautigam in Moulton, Ohio. John became Professor of Veterinary Medicine (1959-1983) at Texas A&M University in College Station, Texas. He was an acclaimed teacher who helped develop the veterinary medicine boards in his specialty, but John's greatest love was for his community, especially in helping the disadvantaged and via his involvement in church activities (both locally and statewide in Texas). He was a member of Faith United Church of Christ in Bryan, Texas and St. Paul United Church of Christ in Wapakoneta. He enjoyed singing in the church choir and gardening, especially roses. In 1985, Texas A&M University conferred upon John the title of Professor Emeritus. John had a remarkable capacity to keep things in perspective. He had a way of chuckling at himself, enjoying not only the company of his friends and family, but also enjoying the nature of the universe and the depth of ideas. He will be greatly missed.

Welcome to the Class of 2015 Diplomates!

Drs. Chance Armstrong, Theresa Beachler, Patrick Brogan, Chelsie Burden, Alexis Campbell, Young Ho Choi, Tyler Dohlman, Natalie Fraser, Claire Freeman, Kendrick Sudderth Govan, Alvaro Garcia Guerra, Jennifer Koziol, Niamh Lewis, Jennifer Linton, Kristen Loncar, Katherine McKelvey, Alexandra Rauch, Jennifer N. Roberts, Camilla J Scott, Carolynne Tarr, Jared Voge. 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	19	13
Equine	9	7
Bovine	3	2
Companion Animal	4	1
TOTAL	35	23 66%

Route	Sat the exam	Passed the exam
Standard (Resident)	30	20
Alternate (Mentorship)	4	2
Graduate	1	1
TOTAL	35	23

COUNTRY	ACTIVE DIPLOMATE	EMERITUS DIPLOMATE	HONORARY MEMBER	TOTAL
Argentina	1			1
Australia	21			21
Brazil	1			1
Canada	37	9	1	47
Colombia	2			2
Denmark	1			1
France	3			3
Germany	3			3
Grenada	1			1
Israel	2			2
Italy	0			0
Jordan	3			3
Malaysia	1			1
Mexico	1			1
Netherlands	2		1	3
New Zealand	5		1	6
South Africa	8			8
Spain	1			1
Sweden	1			1
Switzerland	2		1	3
United Kingdom	5		1	6
United States	293	62	18	373
Venezuela	1			1
West Indies	1			1
TOTALS	396	71	23	490

Breakdown by Employment Type:		Breakdown by Primary Species:	
Academia	189	Mixed	52
Government	9	Bovine	113
Industry	24	Canine	9
Private Practice	143	Equine	157
Retired	42	Feline	1
Other	83	Porcine	6
		Small Animal	34
		Small Ruminant	9
		Wildlife	1
		Other	108

Dr. Richard Hopper

2016 Theriogenologist of the Year

sponsored by *Universal Imaging*



Dr. Richard Hopper received his DVM from Auburn University in 1978. He then operated a private mixed practice for 15 years in Oneonta, Alabama before joining the faculty at Mississippi State University CVM in 1993 as Assistant Professor. He achieved Diplomate status in the American College of Theriogenologists via the alternate route in 1995. Dr. Hopper is currently Professor and Program Leader of the Food Animal

Medicine, Theriogenology, & Ambulatory Section at the CVM. He has served as President of both the Mississippi VMA and the Society for Theriogenology. He was named Veterinarian of the Year for Mississippi in 2008 and received the El Toro Award for Excellence in Food Animal Medicine from the Auburn University CVM in 2014.

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

Call for Nominations for 2017 Theriogenologist of the Year

Nomination due date - **November 11, 2016.**

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 2017 and 2018, respectively. Beginning 2014, the decision was made by the ACT Board of Directors to initiate online voting. Please **complete the ballot** by **June 30, 2016**. 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=2016Ballot>) 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. **Vote today at** <http://www.theriogenology.org/surveys/?id=2016Ballot>.

Vice President:

G. Reed Holyoak - G. Reed Holyoak is a professor, holds the Bullock Equine Reproduction Endowed Professorship in the Veterinary Clinical Sciences department of the Center for Veterinary Health Sciences at Oklahoma State University, and currently serves as department head. 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, served on the ACT Examination Committee from 2005 to 2011 (being Chair in 2010) and served as secretary to the ACT Board 2012 to 2016. Holyoak's current research interests include reproductive infectious diseases, including the reproductive tract normal microbiota, 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.

Secretary

Jack Smith - Upon graduation from veterinary school at Mississippi State in 1999, Dr. Smith practiced for almost three years in mixed animal practice in Georgia. In 2002, he returned to MSU to begin a comparative theriogenology residency and received diplomate status in the American College of Theriogenologist in 2004. Smith accepted a faculty position in the Department of Pathobiology and Population Medicine that same year. He has an interest in bovine, equine and canine theriogenology, and currently helps coordinate the theriogenology course to second year MSU veterinary students. Additionally, he teaches a number of other core courses and electives throughout the curriculum and is a past recipient of the Dean's Pegasus Award for Teaching. He is currently serving as the interim, associate dean for Academic Affairs and oversees and manages the curriculum, its delivery and outcomes assessment endeavors. He has served previously on the ACT Exam Committee and currently serves on the SFT Board of Directors.

Executive Board

Hilari French - Dr. Hilari French is a third generation veterinarian, following her father and grandfather's footsteps into the profession. She attended the School of Veterinary Medicine at Louisiana State University and received her DVM in 2009 and PhD in 2011. Her PhD focused on the proper culture conditions of *Spiroplasma mirum*, its susceptibility to disinfectants and a possible association with Transmissible Spongiform Encephalopathies. She then moved to the University of Illinois and completed a large animal theriogenology residency as well as a second residency program for the Food Animal Practice of the American Board of Veterinary Practitioners. She successfully joined the American

College of Theriogenologists in August 2014 and the American Board of Veterinary Practitioners in November of 2015. She began teaching at Ross University, School of Veterinary Medicine in 2013 as an assistant professor of theriogenology where she teaches across all species but has a special interest in food animal. Dr. French has authored papers on insecticide effects on bovine fertility, case management in difficult dairy patients and judicious use of antimicrobials in food animal. Her current research focuses on immunocontraceptive use to control feral donkey populations in the Caribbean.

Pat Phillips - A Native Nebraskan, Dr. Phillips began his veterinary career in Benkleman, NE with Dr. Tom Noffsinger in 1985, following graduation. In 1986, Phillips began a three year masters/therio residency at the University of Missouri- Columbia working for Dr. Robert Youngquist. At the end of this training he worked for American Breeders Service in DeForest, Wisconsin as a embryo transfer researcher for two years, then moved to head veterinarian until 1997. Phillips became a Diplomate in 1990 in Toronto Canada. After leaving corporate medicine, he went back to practice as a partner in a five person practice in Mayville, Wisconsin specializing in herd health and embryo transfer. He served on the SFT Board of Directors from 1995 to 1998 and as president of the Society from 1999 to 2000. In 2010, Phillips started Ovadoc Embryonics which provided ET in the south central part of Wisconsin and has maintained this practice since then. In 2013, he joined the Iowa State University College of Veterinary Medicine as a senior clinician heading up the Production Animal theriogenology section in the hospital. He was awarded the Scott and Nancy Armbrust Professorship in Veterinary Medicine in 2014, which he holds today. Upon arrival at ISU, Phillips started a residency program and has graduated their first resident, Dr. Tyler Dohman, who is now a diplomate in the ACT. In addition to clinical private practice, Phillips served in the US Army reserves and National Guard for 29 years, retiring in 2005 as a Lieutenant Colonel. In the Veterinary Corp, he served as Commander of the 719th MED DET (LG) for nine years and deployed with them to Iraq and Afghanistan in 2003 and 2004. Phillips was awarded the Bronze Star for meritorious service during this campaign. Currently, his area of interest and research involves semen cryopreservation and bovine Trichomoniasis. He thoroughly enjoys teaching clinical theriogenology to fourth year students and providing broad therio services to producers throughout the Midwest.

Honorary Members:

Jill Colloton - Dr. Jill Colloton completed her DVM at the University of Illinois in 1988 and joined a mixed practice in central Wisconsin shortly after. During her experience in clinical veterinary practice in dairy production medicine, she developed an interest in ultrasonography. She then went on to complete an Ultrasound Short Course (1995) and the Dairy Health Management Certificate Program (1997-2000) at the University of Wisconsin. Since 2000, she has owned and operated Bovine Services, LLC, providing ultrasound services for dairy and beef producers and ultrasound training courses for veterinarians. Dr. Colloton has been an invited speaker at various veterinary meetings throughout the United States and Canada.

Dr. Colloton served as coordinator for AABP bovine ultrasound seminars for nearly a decade. She also held the role as president of County Center Bovine Services for five years. She has been an active member of the Society for Theriogenology since 1988 and is currently serving her second term on the Board of Directors. She has been a key role in the annual conference with her involvement in the SFT Student Mentorship Program. Dr. Colloton is also a member of the American Association of

Bovine Practitioners (1988), American Veterinary Medical Association (1988), Wisconsin Veterinary Medical Association (1988), and the American Dairy Science Association (2004).

Dr. Colloton has made contributions in several reproductive medicine books, articles in leading veterinary journals and collaborated internationally in composing "Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography". She has also contributed a vast number of annotated ultrasound images that serve as a resource for students and her colleagues.

Dr. William Dee Whittier - Dr. Whittier is a professor of production management medicine and a bovine specialist in the Department of Large Animal Clinical Sciences in the Virginia-Maryland Regional College of Veterinary Medicine at Virginia Tech. He is also the Virginia Cooperative Extension specialist for beef cattle for the college. He received his DVM in 1979 from the University of California-Davis and his master's degree in micro-computer education in 1983 from Virginia Tech. Prior to joining the college in 1980, he completed an internship in large animal medicine and surgery at the University of Saskatchewan's Western College of Veterinary Medicine. His research interests are applied bovine internal parasitology, applied bovine reproduction and beef cattle marketing and disease. Whittier served as an educational advisor and was also on the founding committee for the Virginia Academy for Food Animal Practice. In addition, he is a member of the Southwest Virginia Veterinary Medical Association, the American Veterinary Medical Association, the Virginia Veterinary Medical Association, the American Association of Bovine Practitioners, the American Veterinary Computer Society, the American Association of Extension Veterinarians, the American Association of Veterinary Clinicians, the National Association of Agricultural Extension Agents, Phi Kappa Phi and the Society for Theriogenology.

Dr. Whittier has made significant contributions through his research on bovine reproduction management. He continues to provide food animal education through the university's extension program, remains extremely active in providing local dairy and beef clients clinical services, and plays a key role in the education of the students at Virginia Maryland College of Veterinary Medicine. Dr. Whittier has also been the principal investigator on numerous publications in the area of bovine reproductive health and also presented in the food animal session at the annual Theriogenology Conference.

Theriogenology Foundation auction donations needed!

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

Submit the [auction donation form, found on the TF website](#) at www.theriofoundation.org along with your 300 dpi high resolution photos. Contact Tara Beasley at Tara@franzmgt.com or 334.395.4666 with questions or for details on coordinating auction items.

Theriogenology Foundation

2016 fundraising events

Silent Auction

Books, textbooks, photographs, paintings, gift baskets, jewelry, novelty items, specialty wine and prized one of a kind collectibles can all be found at the Theriogenology Foundation's 8th annual Silent Auction coming up in Asheville, North Carolina. Proceeds from the auction will go to benefit students, residents, student chapters and others with travel grants, research projects and outreach.

If you would like to have your item available for viewing online prior to the conference, please submit the description and photo prior to June 10, 2016. Submit the Auction Donation form, found on the TF website, www.theriofoundation.org along with your high resolution photos to TF-Auction@franzmgt.com.

This year you will again be able to submit items for the Silent Auction on site, please bring those with you to be registered. We encourage all SFT student chapters to submit a basket of their schools items to be a part of the Silent Auction. New this year, those SFT student chapters that are competing in the Student Chapter of the Year award competition will receive an extra point for submitting a basket to the auction.

Winners of auction items will be able to pay for their purchase at the Therio Conference registration desk prior to 2 p.m. on Saturday, July 30, and make arrangements if necessary, for shipment from the donors.

Live Auction

The TF Live Auction will be held immediately following the Awards Dinner on Friday, July 29, to be held in the Heritage AB Ballrooms (Omni Grove Park Inn). People may attend the auction without having attended the dinner. 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.

Craft Beer Tasting

During the Opening Reception in the Exhibit hall on Thursday, July 28, attendees will have the chance to experience some Asheville brewed craft beers, and help the Theriogenology Foundation at the same



time. For \$40 you will receive four samples of beers. 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 2017 in Fort Collins, Colorado, August 3-7, 2017. Three nights of the winner's hotel at the lovely Hilton Fort Collins will be paid for, along with a travel stipend. Plus the winner will receive one Awards Dinner ticket, and the investment could be tax deductible. Tickets are available through the TF website, through the Therio Conference office or on site at the registration desk. Only 100 tickets will be sold, get yours before they disappear!



5th ANNUAL RAFFLE

Fort Collins 2017 Conference Package

Conference Registration | 3 Night Hotel Stay
Event Tickets for one

Limited 100 tickets will be sold for \$100 each.

Conference package provided by SFT.

[Click here to purchase a ticket!](#)

All proceeds support the mission of the Theriogenology Foundation.

You do not have to be present to win!



July 31, 2016 Therio Conference group rafting trip

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

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

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

Register online at www.therio.org when completing your conference registration to be sure you get a spot in this fun-filled outing.



**Click the links below for
2016 Therio Conference news
and registration information!**

[Conference news](#)

[Conference registration](#)

Early bird rates end June 25!

[Hotel registration](#)

Omni Grove Park Inn

Reduced room rate cutoff June 25!

[Buy a raffle ticket](#)

[Donate to the Live or Silent Auction](#)

2016 Scientific Information/Abstract Committee Report

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

21 Competitive Abstracts

26 Non-competitive Abstracts

10 Case Report Abstracts

2 Poster Abstracts

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

After abstracts were evaluated and ranked by the committee, the following sessions were organized:

Opening Session (2 h): 8 Abstracts

Dr. Jerry Rains Memorial Abstract Competition Session (2 h): 8 Abstracts

Equine Session (2 h): 8 Abstracts

Production Animal Session (2 h): 8 Abstracts

Small Animal Session (2 h): 8 Abstracts

Case Reports (Multi Species) Session (2 h): 8 Abstracts

Posters: 7 Abstracts

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

Two new members have been selected for next year. They are Dr. Jeanine Woods - New ad-hoc member (Small Animal expertise), and Dr. Juan Romano – New full member (Food Animal expertise) I would like to thank everyone in the Scientific Abstract Committee for all their dedication and effort in preparing a high-quality scientific program for the 2016 meeting. Special thanks go to the Franz management for their continuous support!

In addition, we would like to thank all the authors and their colleagues who took the time and effort to participate. Certainly, dissemination of knowledge and research grows the scientific basis of our specialty.

Many thanks,

Fernando Campos-Chillon MS, DVM, PhD, DACT
Chair, Scientific Abstract Committee

2016 Report of the Certifying Exam Committee

The ACT Certifying Exam Committee met in St. Augustine Beach, Florida, from January 5-9, 2016. The members in attendance were: Kara Kolster, Past-Chair; Marco Coutinho da Silva, Chair; Michelle Kutzler, Vice-Chair; Reed Holyoak, ACT Secretary; Carlos Risco, Patricia Sertich and Brian Whitlock. The committee spent most of the time in FL reviewing exam questions to assure a balanced, comprehensive and fair examination. At the completion of the review process, the pass point was set at 70%. During the January meeting and since then, the committee has been working on some of the issues/topics detailed in the ACT Exam Committee Report from January 2016, presented to the Board by Dr. Holyoak. A summary of the committee's efforts thus far is below:

1. Dr. Julie Cecere has been selected as the new member in the Exam Committee, to replace Dr. Kara Kolster. Dr. Cecere has accepted the nomination and will start her duties in the committee after the Annual Conference at the end of July 2016.
2. Dr. Kutzler is developing an online training on "Writing Exam Questions" for members/speaker submitting new questions as part of the re-certification process. We expect to have it upload in the ACT website before the Annual Conference meeting.
3. Electronic Examination: Dr. Pat Sertich and I (Marco Da Silva) have been gathering information on ExamSoft, an electronic examination software that has been used by many Universities and Professional Colleges, in veterinary medicine and other disciplines. As stated in the January 2016 report, the technical support received from the current question bank system (TDC) has been sporadic at best. Moreover, many of the previous requests for improvement have not been answered. Lastly, the 3-yr contract with the TDC Company is set to expire in December 2016. Thus, the committee will present a proposal to the ACT Board requesting that we adopt the ExamSoft for the Certifying Examination starting in the Fall 2016, to allow for a smooth transition of the question bank from the TDC to the new system. Please see the attached information on the ExamSoft system, logistics and benefits of using the new system.
4. The Exam Committee would like to learn the outcome of the discussions on some of the issues reported in our January 2016 report. Specifically, we would like to know the outcome of the following topics discussed: 1) Letter of Appreciation from the ACT to employers of the members of ACT committees and executive offices; 2) Request to eliminate the Porcine Exam.

Dr. Kara Kolster is finishing her term and will be leaving the committee this year. We are grateful for all her contributions to the committee, her leadership, friendship and humor. Dr. Holyoak will also be finishing his term as Secretary of the College. Dr Holyoak has been instrumental in the organization, reporting and leadership in the committee, and will be sorely missed. The committee feels that the new Secretary would benefit tremendously by having previous experience in the Exam Committee.

The 2015 Certifying Exam will be given on July 26-27, 2016, prior to the SFT/ACT Annual Conference in Ashville, NC.

Sincerely,

Marco A. Coutinho da Silva
ACT Certifying Examination Committee Chair

Electronic Examination Q&A – ExamSoft

Here is a 2-min video with a general overview video of how ExamSoft works:

<http://learn.examsoft.com/exam-software-products/how-it-works>

- 1) Why should we change system?

ACT currently pays \$3,500/yr to TDC and, as stated previously, they are not providing adequate support to us. The 3 yr contract with TDC is set to expire at the end of December 2016. Thus, moving the bank to ExamSoft would also be fiscally attractive for the ACT, as the cost is expected to be considerably lower.

- 2) How much will this cost, initially and annually?

OSU has not yet decided on the cost of sub-licensing, but I have been told that it would be in the range of \$20-\$40/exam. Potentially, there may be an additional fee for technical support. In any case, it seems that the cost would be less than we currently have with TDC.

- 3) Will the candidates still be able to take the exam during the annual meeting, know the results and be able to be introduced during the annual business meeting?

Yes, the exam would be given at the same times/schedule as it currently done. The main difference is that we will not need to send scantrons to outside institutions for grading. Moreover, essay questions would likely be graded more efficiently since there would be a electronic rubrics for each question.

- 4) How does the candidate access the exam?

The candidate receives an email with a link to download the "test center" days prior the examination. They also receive a file containing the exam. This file cannot be accessed using a password provided at the time of examination. At the end of allotted time, the exam closes automatically. During examination, the screen and all functions of the computer is blocked, and the candidate only has access to the exam. After finishing the exam, they hit "submit" and the computer is unlocked. The file with the answers is automatically submitted to the ExamSoft main server. A copy of the file remains in the candidate's computer for a short period of time, to ensure that transmission was successful. After that, the file is automatically deleted from the candidate's computer.

- 5) Is it secure? Can candidates access the exam ahead of time?

The file is encrypted and can only be opened by the ExamSoft program. The file also requires a password to be accessed.

- 6) What are the upgrade functions of the software – ie. Can video clips be added to the exam and what other forward thinking functions does it have or will have?

Picture and videos can be upload as part of questions.

- 7) Will the process and logistics for preparation of the exam and review of questions change if ExamSoft is adopted?

The process will remain virtually the same. ExamSoft also allows the Chair to select questions and then distribute these questions for review to specific committee members, ahead of our January meeting. Committee members will have electronic access to these questions and will be able to edit the questions in the bank. For Essay questions, the committee can create an "official" rubric in ExamSoft and multiple people can grade the same question, using the same rubric. This process actually improves our current process of having each committee member

creating his/her own rubric for each question. Rubrics would be stored and can be used/improved in future years.

8) Does the ACT needs to provide computers to each candidate?

No, the exam can be taken on the candidate's own computer/tablet, since all functionalities of the computer are blocked during examination. The file containing the exam is encrypted and can only be accessed during pre-determined examination time, and then it is automatically deleted. However, it would be ideal to have a handful of tablets that could serve as backup when technical issues occur.

9) Can the exam be still be administered immediately prior the Annual Meeting?

Do candidates need to take the Exam at another Institution or Testing Facility? The exam can be administered in the exact same format and location as it has been for years. Some Colleges have utilized the facilities and technical support at specific Universities; however, this is not a requirement. Alternatively, a tech support person can be hired to be present at the examination and provide the additional support, if needed.

10) Would Exam Soft allow for the Practical Exam to be electronic?

Essay questions are manually graded. You can create a rubrics for each question (which we do anyway) and as you are grading, you "click" on each item in the rubrics and it automatically adds up the score. For the practical, we can add keywords that are automatically recognized and scored. The issue is that you need to think about all of the correct possibilities and misspellings. However, the person grading the exam can quickly scroll through the wrong answers to make sure it was incorrect.... Big time saver.

11) How long will take for final results from examination?

Results from multiple choice exams will be available immediate after the candidate submits the exam. Essay questions will still need to be graded manually. However, the process is more efficient because reviewers use the same electronic rubrics, which automatically calculates the final score for each question.

12) Can more than one committee member grade the same question?

Yes, each essay question can be graded by multiple members, and the score can be averaged.

13) What happen if a candidate download the exam file and then decide not to sit at the boards?

The candidate will not be able to access the exam because he/she will not receive the password, which is given at the beginning of each session of the exam. Even if the candidate try to access the file with the password after the exam ends, the file will not open since the time allotted for examination has passed.

14) Is there any other College within AVMA utilizing electronic examination? How about Exam Soft?

Yes, many other Colleges are using electronic examination (refer to table attached). Many Colleges are using ExamSoft. Some Collecges have purchased their own license (ACVPM) and use a testing center facility or University. Other, are sub-licensing from major Universities. The Ohio State University is working with ACVM on a sub-license for their examination in December 2016. ACVM candidate will take the exam at OSU.

15) Would electronic examination improve the quality of questions and building future exams?

Certainly. Currently, very little analytics are obtained from past examinations and the opportunity of selecting well-constructed questions based on candidate's performance is non-existent. ExamSoft provide detailed analytics on both essay and multiple choice questions. Moreover, specific learning objectives can be created and then be linked to different questions, improving the development of new exams.

16) Will we need to assure good internet connectivity in the examination room?

No. Once the exam file has been downloaded to the candidate's device, which should occurs days in advance, the file is accessed locally and independently of internet access.

17) Will the question banks be able to be migrated easily or labor intensive?

Our ExamSoft person looked at that and told me that it would be possible to transfer the TDC bank to Exam soft, without having to re-enter each individual question.

18) What is the timeline – can this be done in one test cycle?

Yes, if the Board approves the change during the Summer Meeting, we should be able to adopt Exam Soft for the 2017 Exam.

Electronic Exam... *continued on p. 10*

[Don't forget to vote for your new officers and directors.](#)
[Sign in to the ACT site.](#)
www.theriogenology.org
[Deadline is June 30.](#)
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SAVE THE DATE!



Therio Conference
2017 Ft. Collins | August 2-5

American Board of Veterinary Specialties Examination

Specialty	On-line exams	Program	Affiliation	Comments
ACVM	2016 yes	ExamSoft	The OSU	ACVM is moving our exam to ExamSoft this year and will also be working with Ohio State.
ACVPM	yes	ExamSoft	The OSU	ACVPM, we have been working with OHIO state to use their facilities; it has worked out well for us. We send our question writers to NBVME Question Writing Workshop. The exam is run on Exam soft software.
ACAW	2015 1 st year multiple choice	ExamSoft	Michigan State U	<p>ACAW's annual exam is given at NCSU, There are a number of ACAW Diplomates in the vicinity who serve on the exam committee & are available to assist in grading the essay/scenario portion of the exam.</p> <p>ACAW uses ExamSoft for the multiple choice question part of the exam - 2016 will be our second year. Michigan State University CVM has been using ExamSoft for a number of years and ACAW has piggy-backed onto that license.</p> <p>In addition, our director of IT (DVM, PhD) comes to Raleigh and oversees the candidates during the M/C exam (as a paid consultant). The candidates are encouraged to arrive the day before and late afternoon are given the opportunity to work through a practice sign-in to the ExamSoft program and a brief response exercise - greatly diminishes lost time & frustration on exam day. He can address any technology questions with the laptops used during testing (avoids candidates trying to ply information from a Diplomate regarding test content), and he provides the committee with "stats on the spot" helping to highlight any problematic questions, frees up all exam committee members to hand-grade the other part.</p> <p>I've used ExamSoft for years at MSU CVM and really appreciate its ease of use. The timer is set at the time of log-on and one doesn't have to chase down the final exams from students holding on to them to recheck responses 'one more time' ... when the timer is up, the system shuts down. They learn to adapt and it's much fairer to all. Students who require accommodations take their exams in smaller quiet rooms near the student services offices - their time allowance is dependent on their special need/recognized disability.</p> <p>I'm sorry to have missed the gathering in Schaumburg - I wish you all well. Carla (outgoing ACAW representative)</p> <p>On Thu, Feb 25, 2016 at 8:00 PM, American Brd of Veterinary Specialties forum <american_brd_of_veterinary_specialties@avmanet.org> wrote:</p>
ACVD	2016 multiple choice	ExamSoft	Western U Pomona	ACVD used ExamSoft for first time this year for multiple choice section. We have given the exam at Western University in Pomona for the past 4 yrs. We still use microscopes for one section (dermatopathology) and Western provides those (for a fee of course)
ACVB	In process	ExamSoft		<p>At ACVB, we are just now in the process of transferring our exam data base over to Exam Soft. Our long term plan is to be able to give the entire exam on line. I am not yet sure of the exact cost but can have more information by our meeting in a couple of weeks.</p> <p>We are right in the middle of this activity.V alarie</p>
ACVS	2016 Phase I yes Phase 2 no	HumRRO		ACVS is just starting their 2 phase exam this year. Phase 1 will be at testing centers in the 2nd year of the residency. Phase 2 will still be in person at the end of the residency. Presently there is no plan to move phase 2 to computer based but of course this is probably in the future. ACVS also works with Hum RRO. This will be our first time at a testing center in April 2016 for part 1 of the exam. Amy
AVDC	yes	Comira ExamBuilder	Comira proctored at their sites	<p>AVDC now runs its Written (MCQ, some with images) exam online, using Comira exam centers with proctoring provided by Comira. Each candidate selects the exam center most convenient to them.</p> <p>We also run a separate 'practice' exam online using ExamBuilder software without proctoring (there is then a review session at our Annual Meeting, so the questions are not confidential). This year the Academy of Veterinary Dentistry will also be using the ExamBuilder software, provided online at proctored sites (veterinary dentists' offices).</p> <p>AVDC uses HumRRO as our examination consultant company. The HumRRO psychometrician works with Comira (http://www.comiratesting.com) to arrange availability of Comira exam centers on a particular date. The candidates are given the Comira contact information and a password to use to register for the exam. Each candidate then selects an exam center that is convenient for her/him.</p> <p>HumRRO provides the exam content to Comira, which then uses its</p>

American Board of Veterinary Specialties Examination

				<p>proprietary software to make the exam available within a stated time frame to each candidate who has registered and has the password for Comira to check when the candidate arrives for the exam.</p> <p>Comira then downloads the exam scores to HumRRO for the psychometrician and Exam Comm members to review. The candidate identification code is broken only after the Exam Comm has made a recommendation to the Board and the Board has decided pass or fail for each code number candidate. Colin Harvey.</p>
ACVR	Planning for 2017 or 2018		Job Analysis company	<p>The ACVR is moving towards on-line exams in the next few years. We are going to start with our Preliminary Exam (multiple choice). Our plan is to use the company that helped with our Job Analysis. We are using the results of the Job Analysis to revamp our Board Exam Objectives, and then we will link all of the Preliminary Exam questions to those Objectives. All of this is managed by one company. We are investigating moving our Certifying Exam, case interpretation, to an on-line format too.</p> <p>Advantages for having this company manage our exam include the following:</p> <ul style="list-style-type: none"> - They have ~200 testing centers in the US. And they have International testing centers - They handle test registration and security - Their psychometricians to help us analyze the results of the exam - Coordination with our Job Analysis <p>As a faculty member at The Ohio State University, I have not used our services for ACVR testing. We use Exam Soft for our veterinary students, and as the ACVN mentioned, Exam Soft collects a fee per person that uses the software (usually per year).</p>
ACVIM	Currently investigating			<p>ACVIM does not currently utilize on-line examinations but is actively investigating the possibility. Because we administer six examinations, each of which has a different format, we are looking at starting with the General Examination. That is an examination which all candidates - regardless of specialty - must take and also it is an entirely multiple choice examination, making it an ideal pilot. The results of that pilot project will most likely determine our next steps.</p>
ACVVA	inquiring			<p>The ACVAA has done a Job Analysis and followed that up with a Test Specifications meeting and started the process of allocating questions to different testing formats depending on what type of knowledge/assimilation the examiners are looking to assess.</p> <p>I see from recent discussions that many of you are using computerized formats and testing sites and the ACVAA too would like to move toward that (and away from the written and oral examination format). This will take a few years to ensure we are capturing materials we want to test. A concern that has been raised is about cost and I wondered if those who are doing this (and perhaps especially smaller colleges where funds may be limited), could</p> <ol style="list-style-type: none"> a) advise on what it takes to make this transition b) if one testing site is used and candidates are required to travel to it or if multiple regional sites are 'simultaneously' used c) cost per examinee for testing in this manner d) if exam fees cover this cost or candidates pay an additional fee <p>Thank you so much in advance for your input.</p> <p>Khursheed Mama, DVM, Diplomate ACVAA Professor, Anesthesiology Department of Clinical Sciences Colorado State University Fort Collins, CO 80523 Phone: 970 297 4124 Email: kmama@colostate.edu</p>

3-8-16 Sertich

2016 Therio Conference Special Events

Canine Seminar

sponsored by **bioMerieux** and **Raleigh Kennel Club**

Opening Session Abstracts

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

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

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

SFT Business Meeting

ACT Business Meeting

Student Case Presentations

Exhibit Hall Opening Reception
sponsored by **Omni Grove Park Inn**

Theriogenology Foundation Craft Beer Tasting

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

Student T-Shirt Contest
sponsored by **Bovine Services LLC**

SCOTY Award
sponsored by **Hagyard Equine Medical institute**

Plenary speaker Dr. Joseph C. Dalton
sponsored by the **American College of Theriogenologists**

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

Theriogenology Foundation Silent Auction

Annual Awards Dinner Reception

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

Dr. John Steiner Award for Practitioner Excellence

Theriogenology Foundation Live Auction

Therio Conference Whitewater Rafting Trip

2016 Therio Conference Schedule

Canine Seminar:

Wednesday, July 27, 2016

sponsored by **bioMerieux** and **Raleigh Kennel Club**

Cheryl Lopate DVM, MS, DACT
Margret Casal, Dr med vet, PhD, Dipl. ECAR

We invite you to roll up your sleeves at the SFT Canine Seminar. Learn by doing as our team of experts combines classroom instruction with hands-on guidance at practicum stations for a variety of reproductive procedures. The seminar will be of benefit to both experienced and novice theriogenology practitioners.

Procedures to be covered include (but are not limited to):

- ▶ Semen processing and diagnostic evaluation (extenders, stains, gradients, etc.)
- ▶ Handling frozen semen and working with liquid nitrogen
- ▶ Uterine and testicular biopsy techniques
- ▶ Neonatal resuscitative techniques
- ▶ Tube feeding neonates
- ▶ IV access and interosseous fluid administration in neonates

Awards, meetings and presentations:

Thursday, July 28, 2016

Bartlett Lifetime Achievement Award and address

Theriogenologist of the Year Award and address

Dr. Jerry Rains Memorial Abstract Competition

SFT Business Meeting

ACT Business Meeting

Student/Mentor Get Together

Student Case Presentations

Opening Reception in the Exhibit Hall , Bluegrass Band, Craft beer tasting to benefit the Theriogenology Foundation

Merck Student Quiz Bowl

Plenary speaker:

Friday, July 29, 2016

"Genetics and Genomics: An introduction" and "Genomics and Fertility: Where are we going and when will we get there?"

..... Joseph C. Dalton, PhD

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officers and directors.

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2016 Therio Conference Schedule

Pre-registration savings expires June 25, 2016

Small animal sessions:

Friday, July 29, 2016

Squeaks, snorts, grunts and poots - music to our ears - the top 10 things you can do to improve neonatal and pediatric outcomes, part 1 Marty Greer, DVM, JD

Squeaks, snorts, grunts and poots - music to our ears - the top 10 things you can do to improve neonatal and pediatric outcomes, part 2 Marty Greer, DVM, JD

It's time, past time, or is it?- Caesarian section and managed whelping in the bitch Scott Bailey, DVM, DACT

Saturday, July 30, 2016

From taboo to touted – a mythbuster's report – Analgesia for Caesarian section delivery and post-operative recovery Steve Escobar, DVM

Tubes, timing and temperature – what does it matter? – factors influencing results in progesterone measurement William Schultz, DVM

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

Wading into controversy – what we are learning about sterilization in dogs – Part 2 – Neoplastic diseases associated with spay/neuter status in the canine C. Scott Bailey, DVM, DACT

When sooner is better than later– introduction of parturition in the canine Frances Smith, DVM, PhD, DACT

Is it in, is it not or is it just on top? – Use of topical medications during pregnancy and lactation Frances Smith, DVM, PhD, DACT

How a mother and a dog changed the future for patients with a rare and deadly disease – AAV-mediated gene replacement rescues severe muscle pathology and improves survival in the p.N155K canine model of X-linked myotubular myopathy David L. Mack, PhD

Production animal sessions:

Friday, July 29, 2016

Abortion diagnosis David Pugh, DVM, MS, MAg, DACT, DACVN, DACVM

Abortion management David Pugh, DVM, MS, MAg, DACT, DACVN, DACVM

Male breeding soundness evaluation Cliff Shipley, DVM, DACT

Saturday, July 30, 2016

Understanding follicular waves and breeding management Gregg Adams, DVM, MS, PhD, DACT

Ovulation inducing agents Gregg Adams, DVM, MS, PhD, DACT

Pregnancy specific protein B and other pregnancy diagnostic tools Juan Romano, DVM, MS, PhD

Diagnostics of endometritis Réjean Lefebvre, DVM, PhD, DACT

Uterine immune function in the cow Réjean Lefebvre, DVM, PhD, DACT

20 years of modern endometritis research - a review Rob Gilbert, BVSc, Mmed Vet, MRCVS, DACT

Production animal sessions: continued

New frontiers in molecular endometritis research Rob Gilbert, BVSc, Mmed Vet, MRCVS, DACT

Equine sessions:

Friday, July 29, 2016

sponsored by **Rood and Riddle Equine Hospital and Veterinary Pharmacy**

Current understanding of latent bacteria and bacterial biofilms in endometritis Ryan Ferris, DVM, MS, DACT

Treatment for latent infections, bacterial biofilms and fungal endometritis Ryan Ferris, DVM, MS, DACT

New diagnostic biomarkers to evaluate late term pregnancy in mares Barry Ball, DVM, PhD, DACT

Saturday, July 30, 2016

sponsored by **Rood and Riddle Equine Hospital and Veterinary Pharmacy**

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

Improvements of handling/processing techniques to optimize fertility David Scofield, DVM, MS, DACT

Applications of anti-Mullerian hormone (AMH) in equine reproduction Barry Ball, DVM, PhD, DACT

Sexually transmitted disease monitoring, surveillance, and impact on Thoroughbred stud farms in central Kentucky Charlie Scoggin, DVM, MS, DACT

Equine oocyte recovery and ICSI in clinical practice: What can I expect? Katrin Hinrichs, DVM, PhD, DACT

Update on equine embryo biopsy and vitrification Katrin Hinrichs, DVM, PhD, DACT

Review of placentitis update Igor Canisso, DVM, MSc, PhD, DACT, DECAR

Practice Management:

Saturday, July 30, 2016

Adding theriogenology to your small animal practice: a round table discussion William Schultz, DVM, Joann Randall, DVM and Jane Barber, DVM, DACT

ACT Educator's Forum:

Saturday, July 30, 2016

sponsored by the **Theriogenology Foundation**

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

2016 Abstracts

July 27, 2016 Opening Session Abstracts

- Roberto A. Palomares, DVM, MS, PhD, DACT Characterization of serum, uterine and vaginal IgG response against *Tritrichomonas foetus* surface antigen after administration of a commercial killed whole *T. foetus* vaccine in beef cows
- Kelly London, BS
**Dr. Bruce Christensen to present The effects of EC-Oxyrase® and coconut water on equine sperm cryopreservation
- Kim Gleason, PhD Do differences in maternal Immunoglobulin G influence passive transfer and subsequent cria growth in alpacas?
- Claire Card, BSc, DVM, PhD, DACT Prevalence of *Brucella melitensis* Seropositive goats in rural Uganda
- Seth Bynum Gene expression and changes in biological function in placenta and uterus of ewes with subclinical pregnancy toxemia
- Kristine Gonzales, DVM, DACT Evaluation of oral folic acid supplementation on the incidence of cleft palates in Labrador retrievers, Golden retrievers, and Lab/Golden cross puppies in the Guide Dogs for the Blind breeding colony
- Candace Lyman, DVM, DACT 16S rDNA-based profiling of canine reproductive tract microbiota reveals a complex microbial ecosystem
- Jennifer Roberts, DVM, DACT Time-dependent changes in pregnancy-associated glycoproteins and serum progesterone in a commercial crossbred sheep during pregnancy and the postpartum period

July 28, 2016 Competitive Session

- Firdous A. Khan, BVSc, MVSc Nitric oxide's dose-dependent inhibition of uterine contractility: a potential mechanism underlying persistent breeding-induced endometritis in the mare
- Viviane C. L. Gomes, DVM The significance of eosinophils in equine uterine cytology: a retrospective study
- Kristy Meadows A rodent model for non-surgical sterilization using an antibody-guided lipid nanoparticle cytotoxin delivery system
- Stephanie White, BS, DVM (May 2016) Fertility following control of follicular wave emergence with GnRH and timing of insemination in 14-day CIDR protocol in Angus cross beef heifers
- Jamie Stewart Evaluation of post-thaw semen parameters for different extenders in white-tailed deer
- Alyssa Cornelius, BS Risk factors for canine dystocia and stillbirths
- Melissa Ann Roberts, BS Animal Science Evaluation of lipid content, mitochondrial polarity, and cryotolerance of Holstein *in vitro*-produced embryos following culture with Vitamin K2, Forskolin, and conditioned medium
- Margo L. Hennet, BA Role of biofilm in infectious endometritis in the horse

July 29, 2016 Equine

- Etta Bradecamp, DVM, DACT, DABVP Results of hysteroscopic examinations performed as part of breeding soundness evaluations on mares presented for infertility - a retrospective study
- Robyn Ellerbrock, DVM Endocrinologic and somatic changes during the peripubertal period in Standardbred colts
- Chelsey Leisinger, BS, MS In vivo embryo production during induced aluteal cycles in the mare
- Jennifer K. Morrissey, DVM Pathogenicity of *Escherichia coli* isolated from the equine uterus
- Jason B. Andrews, BSc(Hons), BVSc(Hons) What can UCH-L1 tell us about idiopathic testicular degeneration (ITD) in the stallion?
- Melissa Prell, DVM Alpha-fetoprotein as a marker for equine neonatal disease
- Etta Bradecamp, DVM, DACT, DABVP Hysteroscopic hydrotubation of the oviducts as a treatment for idiopathic infertility in the mare - a retrospective study
- Young Ho Choi, DVM, PhD, DACT Update on foal production using oocytes collected from ovaries shipped post mortem in a clinical program

July 29, 2016 Food and Fiber Animal

- Vanmathy Kasimanickam, DVM, MS, DACVPM Fusion of boar sperm with nanoliposomes prepared from synthetic phospholids
- Vanmathy Kasimanickam, DVM, MS, DACVPM Do sperm and seminal plasma microRNAs have similar pattern of expression in boar semen
- John Roberts, DVM, BS Morphological characteristics of Ovarian Follicular Dysplasia (OFD) observed by ultrasound in four Florida beef herds

2016 Abstracts

- Ramanathan Kasimanickam, BVSc, DVSc, DACT Sperm and seminal plasma proteomics of bulls with differing fertility
- Jasmin Hyatt. The effect of early post-partum intervention on the reproductive performance of anovulatory anestrus New Zealand dairy cows
- Jamie Stewart, DVM, MS *Corynebacterium pseudotuberculosis* as a cause of bilateral orchitis in a Boer buck
- Jennifer H. Koziol, DVM, DACT *In vitro* efficacy of novel anti-protozoal compounds against *Tritrichomonas foetus*
- Hilari M French, DVM, PhD, DACT, DABVP(FA) Bovine reproductive palpation training: What methods make a difference and do our skills really transfer?

July 29, 2016 Small Animal

- Matthew Krecic, DVM, MS, MBA, DACVIM(SAIM) Performance of a rapid slide agglutination test for *Brucella canis* with canine sera containing antibodies to *Leptospira spp.*
- Ajadi Temitope Ayisat, DVM. Effect of methanolic extract of *Spondias mombinon* oestrous cycle, conception rate and gestation in rabbits
- David Best, BSc. Mammary hyperplasia in a Main Coon queen
- Eleas Wu, BS, DVM Treatment of clitoral hypertrophy by urethral transposition in an intersex dog
- Khawla Zwida, BS
- **Dr. Michelle Kutzler to present Canine thyroid gland expresses Luteinizing hormone receptors
- Ellie Bohrer Early onset of reproductive capacity in free-roaming unowned Queens
- Ajadi Temitope Ayisat, DVM. Hormonal, biochemical and haematological changes during gestation in rabbit does synchronized with prostaglandin f2 alpha
- Vanmathy Kasimanickam, DVM, MS, DACVPM Expression of retinoic acid synthesizing enzymes, ALDH1A1, ALDH1A2, and ALDH1A3 in canine testis during post-natal development

July 29, 2016 Case Reports

- Allison P. Drexler, BS Fecal contamination of the vagina and vestibule caused infertility of a Toggenburg doe due to a third-degree perineal laceration
- Maria Schnobrich, VMD, DACT. Reproductive tract findings in two Trisomy X (65,XXX) Thoroughbred mares
- Erin P Cambier, BSc. Diprosopia, cerebral, cerebellar and pituitary aplasia in a Charolais-cross fetus
- Audrey A. Kelleman, DVM, DACT. Endocrinological evaluation of a granulosa theca cell tumor arising during pregnancy in a mare
- Lindsey Rothrock Outcomes on four mares undergoing perineal body reconstruction
- Nicholas Jenkins, DVM
- **Allison P. Drexler to present Mucometra of the uterus and vagina in a La Mancha doe caused by vestibular and vaginal stricture secondary to dystocia
- Robert Causey, DVM, PhD, MRCVS, DACT Examination of the equine cervix by high magnification video-endoscopy
- Maria Schnobrich, VMD, DACT. Creatinine measurements of accumulated intro-uterine fluid can be used to objectively diagnose urometra in mares

2016 poster session

- Michela Ciccarelli, DVM. Bacteriological quality of frozen-thawed stallion epididymal sperm
- Jason B. Andrews, BSc (hons) BVSc (hons) Ubiquitin carboxy-terminal hydrolase - (L1 (UCH-L1), a biomarker in asymmetrical cell division for undifferentiated type A spermatogonia in the stallion
- Shelby Adcock, BS, DVM student. Can exogenous insulin improve sperm motility in cooled-stored stallion semen?
- Mariana Diel de Amorim, DVM, DVSc, DACT. Serum oxytocinase activity in control, pregnant, oxytocin, and carbectocin treated mares at the expected time of luteolysis
- Allison Drexler, BS. Effects of time of insemination relative to time of ovulation on embryonic sex ratio in mares
- Jenny Katrine Boye Effects of lidocaine on fresh equine sperm membrane permeability, motility, and morphology parameters 0 to 48 hours after collection



From the pen of the president of the Theriogenology Foundation

CARE: (verb) *To feel concern or interest;*

attach importance to something.

If you **care** to:

- **Help** students participate & compete at our annual meeting
- **Inspire** a veterinarian to become a theriogenologist
- **Understand** how a 501c3 strengthens our specialty
- **Engage** others to show them the value in what we do
- **Give back** to your alma mater through the SACO program
- **Honor** the relationship with your clients through the memorial card program
- **Provide** funding to fix a problem and be part of the solution
- **Launch** your legacy
- **Build** partnerships that invest in education and research
- **Devote** a small portion of your time to the Boards and Councils that promote theriogenology
- **Know** what you can do to help
- **Believe** that it is your job to leave our specialty stronger than when you joined it

Then reach for your cell & text your name to 334-521-6257:

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It's your way of letting the Foundation know that you care enough to read these quarterly tidbits and make a donation with someone else's dime. Don't worry, there will be plenty of opportunities to spend your own dimes in Asheville this July!

Anita. Migday

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