Dear ACT Diplomates,

Greetings to all. It has been another busy year for the committees and the executive board. We recently had an Executive Board meeting by conference call and we will be meeting again in person in Milwaukee in August.

The Training and Credentialing Committee has been very busy! For 2018, there are a total of 30 persons who are eligible to write examination this year, including 18 multi-species, 5 equine, 4 companion animal and 3 bovine. The examination will be given on July 31 and August 1 with one special accommodation candidate starting the examination on July 30. We are committed to continuing the computerized delivery of our examination.

As you may recall, a total of 22 candidates sat for the exam in Ft. Collins in August 2017. Of these, 12 candidates successfully passed the examination; 1 of which did not fulfill all requirements for becoming a diplomate in the ACT. That candidate has now completed all of the requirements.

A sincere thanks to all diplomates who have expressed interest to serve on the executive board; we really have a tremendous pool! On behalf of the ACT, I express my appreciation to the candidates and to those involved in the nomination process. Please remember to cast your vote for this important process of our college.

You may have noticed the recent announcement from the Theriogenology Foundation Silent Auction Committee requesting donations of items. We are limiting the number of items to 25 again this year and request that you submit your offers as soon as possible (deadline is June 15).

I hope you have made plans to attend the SFT/ACT annual Theriogenology Conference, August 1-4, 2018 in Milwaukee, WI. The Conference Program Committee has organized an excellent program. There will certainly be something for everyone, with a strong focus on cattle. A new, revised and greatly expanded Bull Breeding Soundness Manual should be available at the Milwaukee meeting; a large group of people have been working diligently to prepare this manual. You don’t want to miss this opportunity to meet old friends and colleagues and make new connections, while getting top notch Continuing Education.

It is my privilege to serve as your President. If you have a question, suggestion or concern, please contact me.

Sincerely,

John Kastelic
Welcome Class of 2017 Diplomates!

Drs. Morgan Agnew, Kelli Beavers, Yehonatan Berkowic, Jenny Katrine Boye, Dinesh Dadarwal, Gabriel Davolli, Jenna Dockweiler, Bruce Dredge, Kathleen Hornberger, Jasmin Hyatt, Jamie Stewart, and Stephanie Walborn.

If you would like more information and statistics from the certifying exam data, please visit the ACT website and follow the link “Becoming a Diplomate”.

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<thead>
<tr>
<th>Species</th>
<th>Sat exam</th>
<th>Passed exam</th>
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<tbody>
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<tr>
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<td><strong>TOTAL</strong></td>
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**54.5%**

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<td><strong>82</strong></td>
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The American College of Theriogenologists fondly remembers the following honorary member that has passed away since the 2017 spring newsletter.

**Melvyn Fahning**

Age 81, passed away on 10/7/2017 following a massive stroke. Melvyn was born on 4/28/1936 in Saint Peter, MN to Otto and Esther (Rheeck) Fahning. He grew up on the family farm in Wells, MN and attended Freeborn (MN) High School.

He earned multiple degrees from the University of Minnesota culminating in Doctor of Veterinary Medicine and PhD degrees in 1964. His specialty was Reproduction and Obstetrics which he taught as Professor at his alma mater for 30 years. He was a pioneer in bovine ova transfer which manifested itself in a commercial enterprise and multiple trips abroad to share his vast knowledge. Mel was preceded in death by his mother, father and Sister (Marilyn). He is survived by 4 children: Mark (Jean), Mitch, Matthew, Marcy; 5 grandchildren; and his dear friend, Francine Hofmeister.

**Breakdown by Employment Type:**

- Academia: 197
- Government: 8
- Industry: 24
- Private Practice: 161
- Retired: 44
- Other: 68

**Breakdown by Primary Species:**

- Mixed: 57
- Bovine: 119
- Canine: 13
- Equine: 171
- Feline: 2
- Porcine: 6
- Small Animal: 40
- Small Ruminant: 9
- Wildlife: 1
- Other: 84
2018 Certifying Exam Committee Report

The ACT Certifying Examination Committee met in January, 2018 to develop the examination and discuss various items of business related to the examination. The committee spent most of the time reviewing exam questions to assure a balanced, comprehensive and fair examination. The members in attendance were: Drs. Michelle Kutzler, Past-Chair; Carlos Risco, Chair; Pat Sertich, Vice-Chair; Jack Smith, ACT Secretary; Julie Cecere, Brian Whitlock, and Ahmed Tibary.

Dr. Robert Malinowski of ExamSoft met with the committee via Zoom conference for one hour and provided a training session on the use of ExamSoft to grade the exam and revise/create questions directly to this program. The committee felt that this was an extremely helpful and productive session that will allow for a more timely and effective method to grade the ACT 2018 exam and to create and revise questions for subsequent exams. The committee strongly recommends that the ACT continues to utilize Rob’s services and he plans to attend the meeting in Milwaukee.

Several excellent candidates expressed an interest to serve on the committee. The committee reviewed the nominees and, considering her specialty in companion animal, Dr. Joann Randall was recommended for appointment to the committee by the Executive Board. The Executive Board appointed her as the new member of the Examining Committee, replacing Dr. Michelle Kutzler who is finishing her term and will be leaving the committee. We are grateful for Dr. Kutzler’s valuable contributions to the committee, her leadership and collegiality.

Dr. Risco assumed the Dean position at Oklahoma State on March 1, 2018, and requested and the committee approved, that he be replaced in the ACT Exam Committee during his term as past chair in 2019. Considering that the past chair has an important role in coaching/mentoring the committee, it was suggested that Dr. Risco’s replacement should have previously served on this committee. The committee discussed several options and recommended Dr. Reed Holyoak as a potential replacement. The Executive Board concurred and Dr. Holyoak has agreed to serve.

The 2018 examination will be administered on July 31 and August 1, during the annual Theriogenology Conference in Milwaukee, Wisconsin. Thirty candidates are expected to sit with a breakout by examination of 18 multi-species, 5 equine, 4 companion animal and 3 bovine.

Sincerely,

Carlos A. Risco
ACT Certifying Examination Committee Chair

2018 Scientific Information/Abstract Committee Report

We want to thank all authors for their support and contributions to the scientific program of the 2018 Theriogenology Conference to be held in Milwaukee, WI. We received 45 abstracts for consideration in the following categories:

17 Competitive Abstracts
19 Non-competitive Abstracts
5 Case Report Abstracts
4 Poster Abstracts

Abstracts submitted to the Therio Conference are scored blindly by all members of the Scientific Committee. The eight competitive submissions with the highest scores were selected for oral presentations at the Dr. Jerry Rains Memorial Abstract Competition session. The next eight abstracts with the highest scores will be presented during the Opening Session on August 01, 2018. The remaining abstracts were assigned to their respective species-specific sessions:

Equine: 9 abstracts
Small Animal: 7 abstracts
Large Animal: 8 abstracts
Posters: 4

All abstracts will be included in the conference proceedings published in Clinical Theriogenology.

The current members of the Scientific Abstract Committee are Drs. Carlos Pinto (Chair), Maria Soledad Ferrer, Juan Romano, Jeannine Woods, Julie Gard and Camilla Scott. Drs. Ferrer and Woods will end their terms this summer, and Drs. Candace Lyman (4-year term, Equine expertise) and Betsy Coffman (2-year term, Small Animal expertise) will be joining the Scientific Committee. A special thanks goes to Dr. Charles Franz and Tara Beasley from Franz Management for their valuable help and support.

We would like to extend a warm invitation to everyone to attend the oral and poster sessions, interact with the authors and learn about their exciting work. We also ask you to actively participate in the Dr. Jerry Rains Memorial Abstract Competition session by asking questions to the presenters as answering your questions is also taken into account in the final presentation score.

We hope to see you all there!

Sincerely,

Carlos R. Pinto
Therio Conference Scientific Abstract Committee
Theriogenologist of the Year
sponsored by Universal Imaging, Inc.

Dr. John Dascanio

Dr. Dascanio received his doctor of veterinary medicine degree from the University of Pennsylvania in 1988 and completed his internship and residency at Cornell University. Subsequently, he became board certified with the American College of Theriogenologists and the American Board of Veterinary Practitioners (Equine).

Dascanio worked up through the ranks of assistant and associate professor of Production Management Medicine at the Virginia-Maryland Regional College of Veterinary Medicine, and then as director of the Large Animal Research Park and Professor of Theriogenology at Ross University School of Veterinary Medicine. He then joined Lincoln Memorial University-College of Veterinary Medicine as a professor of theriogenology and director of large animal clinical skills in August 2014. In July 2016, he was appointed executive associate dean of LMU-CVM. He has over 25 years of educational experience with veterinary colleges, over $500,000 in sponsored research, is the primary or co-author of over 40 peer reviewed articles, has authored over 70 book chapters and was co-editor of the textbook Equine Reproductive Procedures. Dascanio has received multiple teaching awards and has been a driving force in the Theriogenology Educators Forum. Dascanio has held several previous leadership roles, which include president of the Northeast Association of Equine Practitioners, board member of the American Board of Veterinary Practitioners, and served on the executive board of the American College of Theriogenologists as Treasurer, making clear and major contributions in that role.

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 2019 and 2020, 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, 2018.

Vote and you could win!

Sign in to the ACT site, then click the link below or place the ballot link in your browser (https://www.theriogenology.org/surveys/?id=1163069). 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

Jane Barber - Dr. Jane Barber thanks the committee for their vice-presidential nomination and extends congratulations to her fellow nominees. Dr. Barber would be honored to serve in any capacity beneficial to the ACT.

After five years of mixed animal practice followed by two residencies and graduate programs (behavior and theriogenology) and with her ACT (’93) credentials in hand, Dr. Barber moved to North Carolina and established Veterinary Specialties at the Lake which she owns and operates today. In contrast to her many colleagues in academia, she brings a private practice perspective to the college.

Dr. Barber left academia, but she never left teaching or life-long learning. She has authored numerous articles and several book chapters and has been an invited speaker at national, regional, state and local veterinary conferences, dog hobbyist and cat fancier meetings and conferences, and programs for veterinary students. She also hosts vet students for theriogenology preceptorships.

Unique to our “sister” ACT, SFT and TF organizations is their seamless cohesion and collaboration. Through
the years, Dr. Barber has been privileged to serve each. She served two terms on the TF board, one term each on the SFT and ACT boards and was on various committees for each. Twice she was the small animal program chair; twice she organized meeting wet labs. Her service on all three boards offers insight into their common goals and synergy.

Dr. Barber is passionate about theriogenology, committed to its affiliated organizations and has sincere affection for her colleagues. They truly are her extended family. In addition to keeping the college healthy in all aspects (training, credentialing, professional development, recertification, etc.) she desires to keep her therio family healthy. Veterinarians, amongst all professions, now have the highest suicide rate. Our own college has not been spared. Amongst the various veterinary specialties, none may be more demanding, a fact to which we all can attest. The practice of theriogenology can exact a high toll on our family-life balance and personal wellbeing. Dr. Barber hopes to establish confidential and compassionate avenues for preemptive intervention for any of our family who are struggling with substance use disorders, depression, anxiety, burnout, or any other mental health concerns that may impact their personal or work lives.

**Board member nominees**

**Gail Colbern**

Dr. Colbern received her DVM from UC Davis in 1982. She completed an internship in Large Animal Medicine & Surgery at University of Georgia, Athens and a residency and Master program in Equine Reproduction at Colorado State University, Ft. 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.

In addition to SFT/ACT membership, Dr. Colbern maintains membership with the American Veterinary Medical Association, the Oregon Veterinary Medical Association and the Rogue Valley Veterinary

**Dirk Vanderwall**

Dirk Vanderwall is a Professor and Head of the Department of Animal, Dairy and Veterinary Sciences; and Associate Dean of the School of Veterinary Medicine at Utah State University in Logan, Utah. He received his DVM degree in 1986 from Cornell University. He then worked in private practice as the resident veterinarian on a Standardbred horse breeding farm in New York State for two years. In 1989, he entered graduate school at the University of Idaho, where he received his PhD degree in animal physiology in 1992. In 1993, Dr. Vanderwall became a Diplomate of the American College of Theriogenologists. From 1992 to 1994, he completed a post-doctoral research appointment at the University of Kentucky. From 1994 to 1999, he was an assistant professor in the College of Veterinary Medicine and Biomedical Sciences at Colorado State University. From 1999 to 2009, he was an assistant and then associate professor at the University of Idaho. From 2009 to 2012, he was an Associate Professor and Chief of the Section of Reproduction and Behavior in the Department of Clinical Studies at New Bolton Center in the School of Veterinary Medicine at the University of Pennsylvania. In 2012, Dr. Vanderwall accepted his current position at Utah State University where he is involved in teaching, research, clinical practice activities in equine reproduction; and administrative activities as department head and associate dean.
Michelle Kutzler - Dr. Michelle Kutzler is a native of Kent, Washington. She graduated from Washington State University with a Bachelor's of Science and Doctor of Veterinary Medicine degree. After graduation, Dr. Kutzler worked in dairy practice in Minnesota for four years before going to Cornell University to pursue a theriogenology residency under the supervision of Dr. Vicki Meyers-Wallen and Dr. Rob Gilbert. Dr. Kutzler stayed on at Cornell University for a PhD under the tutelage of Dr. Peter Nathanielsz. Her thesis research investigated the effects of multiple courses of dexamethasone on placental vascular blood flow in sheep. Since 2002, Dr. Kutzler has been at Oregon State University in Corvallis, Oregon. Dr. Kutzler teaches numerous courses including Companion Animal Production, Equine Reproduction, Calving School, Mammalian Reproductive Biology, and Hormone Action. Dr. Kutzler also enjoys giving lectures to colleagues and lay audiences. She has published widely in the fields of both large and small animal theriogenology. Dr. Kutzler spends much of her day mentoring undergraduate and graduate research students. At 2018 SFT meeting, she has students presenting on topics ranging from the use of acupuncture for placental retention in dairy cattle to luteinizing hormone receptor expression in canine lymphocytes to causes of neonatal losses in purebred cats. Dr. Kutzler believes that the future of our specialty begins before veterinary school.

Dr. Kutzler has been an active member of the Society for Theriogenology since 1994 and an active member of the American College of Theriogenologists since 1999. Within the ACT, Dr. Kutzler has served on the Scientific Abstract Committee and the Certifying Examination Committee. Dr. Kutzler is a member of the American Veterinary Medical Association and the AVMA Conference Content Coordinator for Companion Animal Theriogenology. Dr. Kutzler also holds positions in several small ruminant associations: American Association of Small Ruminant Practitioners (student chapter advisor), Lamas Association of North America (President), International Lama Registry (Show Division Youth Committee Secretary), and Alpaca Owners Association (membership committee). Dr. Kutzler is also on the Scientific Advisory Committee for the Alliance for Contraception in Cats and Dogs and the Chair of Scientific Committee for the 2020 International Symposium on Canine and Feline Reproduction. Not only does Dr. Kutzler own and show llamas and alpacas, she is an AKC Breeder of Merit with her Dachshunds. Dr. Kutzer and her husband (Sean) of 22 years have 3 amazing children, including one who is following in her mother's footsteps at the University of Minnesota College of Veterinary Medicine.
Proposed ACT Bylaws Amendment

Two amendments to the ACT Bylaws have been submitted and considered by your Executive Board. The proposed amendments add a Maintenance of Certification Committee and update language regarding any needed appeals process to comply with American Board of Veterinary Specialties policy. These proposed amendments, supported by the ACT Executive Board, will be discussed at the upcoming membership meeting in Milwaukee and you will be asked to vote on these proposed changes in a post-conference electronic vote.

A current copy of the entire ACT Constitution and Bylaws is available here.

June 1, 2018

Proposed ACT Bylaws amendment – Submitted by Drs. Scott Bailey, John Dasciano and Reed Holyoak with support from the Executive Board.

Art IV, Section 6. The Executive Board shall appoint a Maintenance of Certification Committee (MOCC) whose duties shall be to evaluate packet submissions from diplomates applying for maintenance of certification and make recommendations to the Executive Board regarding maintenance of certification. This committee shall consist of six (6) members, each serving for six (6) years. Initial committee appointments shall be for staggered terms from one (1) to six (6) years. Members shall serve as committee chair in their fifth year of service. Retiring committee members conclude their term of service following the conclusion of the annual business meeting of The College. Each retiring Chair, in their sixth year of committee service, will act as a resource and aid to the incoming chair in their efforts to lead the committee.

Art IV, Section 76. Other Committees. The Executive Board may appoint other committees which are deemed necessary or are ordered by majority vote of The College.

Proposed ACT Bylaws amendment – Submitted by Drs. Dale Paccamonti, Chance Armstrong, Clare Scully and Jennifer Sones with support from the Executive Board

Art III, Section 6. The Immediate Past President shall serve for one (1) year and shall chair the Appeals Committee.

Art IV, Section 4. The Executive Board shall annually appoint an Appeals Committee whose duty it shall be to review any Petition for Reconsideration filed by an affected party. This committee shall consist of four (4) Diplomates comprising the Immediate Past President, who will serve as Chair, and three (3) other Diplomates of The College who are not currently members of the Executive Board, Training and Credentialing Committee, Maintenance of Certification Committee or Certifying Examination Committee; at least 1 of those 3 members shall have served as a member of the Certifying Examination Committee of The College.

Art VII, Section 3, b,

5. Upon completion of the steps (1) through (4) above, if the affected party is not satisfied with the final decision, the American Board of Veterinary Specialties recommends that candidates and specialty organizations utilize a mediation process.
2018 Therio Conference

special events

Bovine Veterinarian Symposium & Dry Lab
_sponsored by_ Lane Manufacturing, Inc.
Multimin USA
_additional support provided by_ Jorgensen Laboratories

ACT Educator’s Forum
_sponsored by_ Theriogenology Foundation

Opening Session Abstracts

Student Bovine Ultrasound Lecture & Wet Lab
_sponsored by_ E.I. Medical Imaging
_additional support provided by_ Bovine Services LLC

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

Theriogenologist of the Year Award
_sponsored by_ Universal Imaging, Inc.

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 Harley-Davidson Museum
_sponsored by_ Merck Animal Health

Student Quiz Bowl
_sponsored by_ Merck Animal Health

Student T-shirt Contest

SCOTY Award

Plenary speaker Dr. Peter Hansen
_sponsored by_ American College of Theriogenologists

Plenary speaker Dr. Mark Mirando

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

Milwaukee Brewers Baseball Game

Therio Group Outing

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2018 Therio Conference Schedule

**Bovine Veterinarian Symposium & Dry Lab**
_sponsored by_ Lane Manufacturing, Inc.
Multimin USA
_additional support provided by_ Jorgensen Laboratories

Wednesday, August 1
_additional cost, limited seating

The Society for Theriogenology has long been associated with the evaluation of breeding potential of bulls in natural service and the production of semen by the artificial industry. The Bovine Symposium in Milwaukee will provide in depth discussions of bull breeding soundness, including the latest updates in the standards for veterinarians providing fertility evaluation of breeding bulls. Detailed discussions of the collection and examination of semen in the field will be covered in both the lectures and in the laboratory sessions. The use of sex sorted semen and the maintenance of quality control in bull studs will be included in the afternoon session.

Veterinarians have the opportunity to attend the lecture only or participate in the lecture and dry lab.

Veterinarians have the opportunity to earn 8 CE hours by participating in the lecture and dry lab.

**Student Bovine Reproductive Ultrasound Seminar & Wet Lab**
_sponsored by_ E.I. Medical Imaging
_additional support provided by_ Bovine Services LLC

Wednesday, August 1: Lecture
Thursday, August 2: Wet Lab
_additional cost, limited seating

Classroom discussion will include early pregnancy and twin diagnosis, ovarian structures and staging the cycle, uterine pathology, fetal sexing, fetal anomalies, fetal and embryonic death, and uterine pathology. At the wet lab students will each have an opportunity to examine a few cows with machines provided by E.I. Medical Imaging.

This seminar is intended for SFT student members that are in the professional degree curriculum leading to a DVM, VMD or other equivalent degree. Students have the opportunity to attend the lecture only or the lecture and wet lab.

**ACT Educator’s Forum**
_sponsored by_ Theriogenology Foundation

Wednesday, August 1

The Educator’s forum will focus on adapting the theriogenology curriculum to the newly outlined Entrustable Professional Activities (EPAs) by the AAVMC. Educator’s will be asked to assist with creating milestones that are compatible across all curriculums.
2018 Therio Conference schedule

Plenary session:

**Friday, August 3**

*-sponsored by American College of Theriogenologists*

Programming of development during embryonic and fetal life and its consequences for subsequent production .................................................. Peter Hansen, PhD

Program priorities at the USDA National Institute of Food and Agriculture:
Tips for successful grant writing ................................................................. Mark Mirando, PhD

Small Animal sessions:

**Friday, August 3**

Update on the Working Dog Project .......................................................... Jessica Hekman, DVM, PhD

Reproductive challenges in small mammals and pocket pets .................. Kurt K. Sladky, DVM, MS, DACZM, DECZM

Reproductive challenges in pet birds and reptiles ................................. Kurt K. Sladky, DVM, MS, DACZM, DECZM

**Saturday, August 4**

Abnormalities of the estrus cycle .............................................................. Fran Smith, DVM, PhD, DACT

Diagnostic approaches to pregnancy loss ............................................. Fran Smith, DVM, PhD, DACT

Ovary-sparing spay: Considerations, case selection, and client education ................................................................. Fran Smith, DVM, PhD, DACT

Canine genetic testing in the age of genomics and citizen science .................... Erin Chu, DVM, PhD

Integrating canine semen freezing into private practice ......................... Ana Adams, DVM, MS, DACT

Essential equipment for your andrology laboratory ................................ Natalie Fraser, DVM, MS, DACT

Processing techniques for canine semen ................................................. Natalie Fraser, DVM, MS, DACT

Production Animal sessions:

*-sponsored by Lane Manufacturing, Inc.*

**Friday, August 3**

Evolution of cervine, caprine and ovine sex-sorted semen processing .............. Clara Gonzalez-Marin, MS

Adding Laparoscopic AI to your small ruminant practice – ...................... Swanand Sathe, BVSc, MVSc, MS, DACT

Association between subclinical hypocalcemia and postpartum health disorders in dairy cattle ....................................................... Carlos Risco, DVM, DACT

**Saturday, August 4**

Bull fertility in the context of sperm and seminal plasma microRNAs ......................... Vanmathy Kasimanickam, DVM, MS, DACVPM
Challenges facing dairy reproductive management....................................................Ray Nebel, PhD

Embryo transfer as a reproductive management tool..............................................Peter Hansen, PhD

Can we improve fertility with nutrition or just avoid disasters? .......................William Swecker, Jr., DVM, PhD, DACVN

Application of gene-editing in livestock – updates and prospects.......................Kiho Lee, PhD

Attaining reproductive solutions through activity monitoring..............................Ray Nebel, PhD

Effect of mastitis on reproductive performance in dairy cows............................Carlos Risco, DVM, DACT

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

**Friday, August 3**

Why does human infant 'skin to skin' mothering care improve premature infant survival and brain development? Possible answers from the neonatal foal.........................John Madigan, DVM, MS, DACVIM, DACAW

Neonatal Maladjustment Syndrome- treatment results with conventional therapy vs use of the Madigan squeeze procedure...........................................John Madigan, DVM, MS, DACVIM, DACAW

Planning and management of mares and recipients for healthy pregnancies and foals..........................................................Claire Card, DVM, PhD, DACT

**Saturday, August 4**

An updated review of intrauterine treatments and efficacy.................................Soon Hon Cheong, DVM, PhD, DACT

What the equine uterine microbiome can tell us about current therapies for uterine disease.....................................................Reed Holyoak, DVM, PhD, DACT

Equine placental microbiome..............................................................................Jenny Sones, DVM, PhD, DACT

Management of high risk pregnancies.................................................................Claire Card, DVM, PhD, DACT

Management of common stallion challenges......................................................Sue McDonnell, MA, PhD

Understanding and managing age-related subfertility....................................Regina Turner, VMD, PhD, DACT

Stallion FAQ / Roundtable Discussion...............................................................Sue McDonnell, MA, PhD and Regina Turner, VMD, PhD, DACT

Full conference participation plus the pre-conference Bovine Symposium and Dry Lab offers 34.7 CE hours, with a total of 72.5 CE hours to choose from. Symposium and Dry Lab seating is limited and additional fees apply. Visit [www.therio.org](http://www.therio.org) or call the Therio Conference office at 334.395.4666 for details.
August 1, 2018 - Opening session abstracts

Tauroursodeoxycholic acid supplementation improves bovine in vitro fertilization rates……………………………………Soon Hon Cheong, DVM, PhD
Seasonality affects semen cryopreservation of white-tailed deer bucks (Odocoileus virginianus) throughout rut……………………………Jamie L. Stewart, DVM, MS, DACT
64,XY (SRY-negative) phenotypic mare……………………………………………………Julie Storme, BSc(hons), BVM&S
Congenital peritoneopericardial diaphragmatic hernia in a family of Persian cats………………Carol A. Margolis, DVM
A novel non-surgical method to reduce male fertility using the rat as a model………Sandra L. Ayres, DVM, MA, DACT
Comparison between the 5-Day Cosynch and 7-Day estradiol-based protocols for synchronization of ovulation and timed artificial insemination in beef suckled cows…………Julian A. Bartolome, MV, MSc, PhD, DACT
Enrofloxacin administration to late pregnant mares does not cause articular lesions or decrease tendon strength in the resulting foals ………Robyn Ellerbrock, DVM, DACT
Association between inter puppy interval and stillbirth risk……………………………Soon Hon Cheong, DVM, PhD

August 2, 2018 - Competitive session abstracts

Effects of Coenzyme Q10 (CoQ10) on equine semen quality after cryopreservation………………Agustin Ruiz, DVM
Accuracy of Whelping Date Calculator Based on Fetal Ultrasonographic Measurements……………………………………Soon Hon Cheong, DVM, PhD *presented by Gilad Fefer
Pharmacokinetics of intra-rectal altrenogest administration in horses…………………………………Katelyn E. Ellis, DVM
Effect of feeding glucosinolates to mares on Triiodothyronine levels………………Maria Fernanda Lopez-Rodriguez, DVM
Antibiotic activity in an ex vivo model of canine pyometra……………………………………Karen Von Dollen, DVM
Acupuncture increases matrix metalloproteinase activity in bovine caruncles after calving …………………Katrina Hiebel
Testicular Harvest As A Tool To Increase Milt Availability In Sauger (Sander Canadensis)………………Bryan Blawut, MS
Single-layer colloid centrifugation as a method to process urine contaminated stallion semen after cryopreservation…………………………Giorgia Podico, DVM

August 3, 2018 - Small Animal abstract presentations

Impact of age and castration on canine prostate collagen organization…………………………Hannah M. Ruettet, DVM
Assessment of fertility in male cats through cytologic evaluation of testicular aspirates………Camille Cordero Aponte, BS
Luteinizing Hormone Receptor Expression in Canine T-Lymphoma Cell Lines…………………………Sabrina Gust
The effects of estrous cycle and pregnancy on echocardiographic variables in healthy bitches……………………………………Swanand R. Sathe BVSc, MVSc, MS, DACT
Unilateral segmental aplasia of the uterine horn in a Labrador Retriever………………Marthina Greer, DVM, JD
Effect of Omega 3, 6 and 9 fatty acids and Vitamin E on canine semen motility, morphology and cryopreservation…………………………Carla Barstow, DVM
Causes of newborn mortality in Devon Rex kittens…………………………………………………………Holly Omoto
## August 3, 2018 - Large Animal abstract presentations

- Characterization, surgical repair, and outcomes of acquired scrotal hernias in bulls
  - Pablo Jarrin Yepez, BS
- Use of pharmacological agents to aid management of ejaculatory and behavioral dysfunctions in stallions
  - Igor Canisso DVM, MSc, PhD, DACT, DECAR
- Endometrial cyst ablation of three broodmares with a uterine alligator forceps
  - Betty Danielle Radny, DVM
- Follicular and luteal dynamics of the estrous cycle under tropical conditions in Caribbean-based donkeys
  - Rachael Ambrosia, BS
- Dystocia because of uterine torsion complicated by perosomus elumbis in a stillborn Angus calf resulting from a consanguineous mating
  - Riley Thompson, DVM
- In-vitro equine embryo production: an adventure in multi-unit collaboration
  - Candace C. Lyman, DVM, DACT
- A case of juvenile uterine leiomyoma in a yearling Thoroughbred filly successfully removed by manual trans-cervical debriement
  - Allan Gunn BSc.Agric, BVM&S, MANZCVS, DACT, MRCVS

## August 3, 2018 - Equine abstract presentations

- Pregnancy loss following twin ablation on a Thoroughbred breeding farm in Beijing
  - Allan Gunn BSc.Agric, BVM&S, MANZCVS, DACT, MRCVS
- Evaluating the efficacy of a silicone Y-design intrauterine device as a horse contraceptive in a captive breeding trial
  - Candace C. Lyman, DVM, DACT
- Primary hypothyroidism in a miniature jenny associated with neonatal Congenital Hypothyroidism Dysmaturity Syndrome
  - Maria Fernanda Lopez-Rodriguez, DVM
- Next generation DNA sequencing, culture and cytology results in 29 mares with suspected endometritis
  - Maria R. Schnobrich, VMD, DACT
- Clinical findings in a Thoroughbred mare presenting with abnormal pattern of intra-uterine cysts
  - Modesty Burleson, VMD
- The early conceptus and circulating progesterone concentrations in Caribbean jennies
  - Brandi Roberts, DVM
- The use of iSperm technology for on-farm measurement of equine sperm motility and concentration
  - Christa R. Moraes, BS, PhD
- A comparison of two protocols for pregnancy termination in mares
  - Giorgia Podico, DVM
- Severe peritonitis from a scrotal injury in a Thoroughbred stallion
  - Maria Fernanda Lopez-Rodriguez, DVM

## August 4, 2018 - Abstract poster presentations

- Occurrence of proximal droplets in performance-tested beef bulls
  - Zach Bartenslager, BS
- New and recurrent hemorrhagic anovulatory follicles in tropical jennies
  - Emily Hughes, M.Ag
- Canine Pyometra: A Retrospective Study of 21 Cases
  - Daesik Kim, DVM, MS
- Determining the lowest dose of prostaglandin needed for luteolysis of a mature corpus luteum in cycling donkeys in the Caribbean
  - McKinsey Landers, BS
TF SILENT AUCTION 25.0

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 Twenty-Five 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 found online along with pictures of the item(s) by June 15, 2018 to: drjo@animalhospitalofwoodstock.com
Get your donation into the spotlight by submitting early……the final item list will be posted on the website by July 1 so the membership has a month to start saving their dollars to bid!

After 25 items have been selected, we will respectfully ask you to hold your gift until 2019!

**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 3. You do not have to attend the dinner to attend the auction. Auction items can include trips, education experiences, equipment, or sporting events. If you are unable to attend, you can still bid online by completing the Sealed Bid Form.

Can’t make it to the auction?

You can still bid on your favorite items for the silent or live auctions using the online sealed bid form.

Sealed bids are accepted until July 23. Items will be posted online and updated as submitted. Please complete the sealed form on the TF website at: http://www.theriofoundation.org/?page=sealedbidform

Craft Beer Tasting Fundraiser for the Theriogenology Foundation

During the Opening Session Reception Wednesday evening August 1, the Opening Reception in the Exhibit Hall on Thursday, August 2 and Fun Night at the Harley-Davidson Museum, attendees will have the chance to experience some locally brewed craft beer, 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 may be used at the event of your choice.
Thank you!

A huge thank you to the following individuals for all their efforts in planning the 2018 conference!

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Dr. Candace Lyman

**Production Animal Track Program Chairs**
Drs. Pat Phillips and Vanmathy Kasimanickam

**Small Animal Track Program Chair**
Dr. Natalie Fraser

**Bovine Symposium & Dry Lab Chairs**
Drs. Herris Maxwell and Pat Phillips

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Dr. Jill Colloton

**Educator’s Forum Chair**
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**Silent Auction Chairs**
Drs. Joann Randall and Will Schultz

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From the President of the Theriogenology Foundation

The roadshow cast of the Working Dog Project took a time out at Rockefeller Plaza after meeting the Director of Security at the National Football League headquarters in NY, NY. Dr. Elinor Karlsson (Principal Investigator, Broad Institute), Dr. Ira Kaplan (TF advisory council), Lowry Heussler & Spenser (TF Board member & service dog team) and I paused to capture a still moment in a whirlwind trip.

The WDP has generated a buzz in the world of explosive detecting dogs.

The burgeoning demand and simultaneous shortage of detection dogs to keep Americans safe has brought attention to the WDP. This groundbreaking project investigates the genomics of olfaction and will identify key genetic markers necessary to produce successful working dogs. Since you can’t break ground without a shovel, the WDP team is digging for secure long-term funding. After the first 4 months of research, the Broad issued an impressive update that gives us all a great platform to tell this story. A new broadcast quality video is in the works to explain how a successful WDP will impact future research, the dogs and our society. Our official WDP logo is fresh, powerful and thought provoking….is the dog sniffing the helix or looking to break the genetic code?

Therio education continues to hold the spotlight. The 8th & 9th residents who have been selected as part of the AKC/AKC CHF/TF Theriogenology Residency program will begin their training in July, 2018. Funding has been approved for two additional theriogenology residencies per year with an emphasis on canine medical genetics for 2019 and 2020. Additionally, our C-BEST initiative heads to Milwaukee this year as the finale to a week of learning and camaraderie at our Annual Conference.

I would like to extend a blizzard of thanks to all of you who talk about our projects with pride. And a huge thanks to the TF Board of Directors who, buoyed by the support of our membership, believe in the buzz.

Anita M Migday DVM MS

Pictured left to right: 
Dr. Ira Kaplan, Dr. Anita Migday, Spenser, Dr. Elinor Karlsson, and Ms. Lowry Heussler.

Our goal is to find the genetic loci associated with key behavioral traits of military and service dogs. While decades of selective breeding practices have shaped the canine genome, we now look to genetics to guide our selection of dogs for specific training and career paths.

The Broad Institute of MIT and Harvard was launched in 2004 to use genomics to advance science and human health. In 2005, Broad scientists led an international team to decode the DNA of Tasha, the first ever dog sequenced. Since then, scientists have compared the DNA of hundreds of dogs and found millions of differences. Hidden in this complexity are the genetic variants shaping each dog’s behavior.

We have a unique opportunity today to apply cutting edge technology to identify the genes driving dog behavior. This is a first critical step. With the key genetic factors found, we can strategically select better working dogs, which saves time, energy and dollars. Rarely do we have the opportunity to make such an impact for BOTH our national security and our disabled Americans. Please consider supporting the effort. Funding for The Working Dog Project has been provided by the Theriogenology Foundation.
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