Dear Diplomates,

With the Annual SFT Meeting just around the corner on July 21 to 24 in Omaha, NE, I would like to note (again) that 2021 marks the 50th anniversary of the founding of the ACT as a Recognized Veterinary Specialty Organization, and as such, the occasion will be a featured component of the SFT meeting. A major highlight will be a keynote address by former ACT President, Dr. John Kastelic, in which he will share an historical overview of the first 50 years of the ACT. Dr. Kastelic’s presentation will be during the Plenary Session on Friday morning, July 23rd. Additional recognition events are slated for our annual ACT business meeting on Thursday, July 22nd, and a social reception later that same day (details tbd). Given the importance of the ACT milestone we will be celebrating in Omaha, I hope to see many of you there.

One group we certainly plan to acknowledge this summer are the Charter Diplomates of the ACT who are listed on the ACT website at https://www.theriogenology.org/page/History. Over the years, I have occasionally perused the list of Charter Diplomates, and each time I have done that I have been struck by the sheer eminence of those individuals (most of whom are now deceased). Not surprisingly, it’s a “Who’s Who” of Theriogenologists! Although I only had the pleasure of meeting a few of the Charter Diplomates, those I did meet made a lasting impression on me. And on that note, I would like to recount here a fond memory I have of sharing breakfast at an SFT meeting with ACT Charter Diplomate, Dr. Stephen J. Roberts of “Veterinary Obstetrics and Genital Diseases Theriogenology” (i.e., “big red book”) fame. To set the stage, Dr. Roberts and I share our Alma Mater, Cornell University, so my knowledge of (more so knowing the Legend of) Dr. Roberts goes back to my undergraduate days at Cornell in the early 1980’s. In addition to being a renowned clinical theriogenologist at Cornell (through his “retirement” in 1972, after which he practiced with his brother in Vermont for many more years), Dr. Roberts was an accomplished collegiate polo player having served as the Captain of the Cornell Polo Team, and then later the Team Coach during his time on the faculty. Collectively therefore, Dr. Roberts was a “larger than life” individual to me.

Now back to the SFT meeting in San Antonio, TX in late November/early December of 2000 (in conjunction with the Annual AAEP meeting). One morning before the program started, I walked into the hotel restaurant to have breakfast, and who did I see sitting alone at a table, none other than Dr. Roberts! I can’t say that I recall any of the details of our interaction at breakfast that day, but I have no doubt our conversation included some discussion of Cornell and his book. Given the fact that I am recounting what was likely no more than a 45-minute to one-hour interaction with Dr. Roberts that morning in San Antonio nearly 21 years ago, I hope you can sense the lasting effect it had on me. Quite simply, it’s a memory I will cherish forever.

In closing, I hope that by sharing my recollection of a fairly brief encounter with Dr. Roberts, some of you will be prompted to reflect on similar experiences you have had with ACT Diplomates who have touched your lives in one manner or another. Doing so would seem to be a fitting way for each of us to begin getting into the celebratory spirit as we prepare to mark our 50th anniversary as a specialty college this summer in Omaha.

Sincerely,
Dirk Vanderwall
ACT President 2020-2021
Welcome New Diplomates!

Dr. Luis Henrique da Aguiar
Dr. Rory Gormley
Dr. Viviane Cristine Leite Gomes
Dr. Daniela Orellana Guerrero
Dr. Melissa Prell
Dr. Lacey Rosenberg
Dr. Agustin Javier Ruiz Olivieri
Dr. Julie Storme
Dr. Katie Withowski

Congratulations to the following candidates that passed the 2020 exam: Drs. James Barrett, Tessa Fiamengo, and Vanessa Peixoto de Souza.

<table>
<thead>
<tr>
<th>Species</th>
<th>Sat exam</th>
<th>Passed exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-species</td>
<td>19</td>
<td>7</td>
</tr>
<tr>
<td>Equine</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Bovine</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Small Animal</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>29</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Route</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard (Resident)</td>
<td>21</td>
<td>10</td>
</tr>
<tr>
<td>Alternate (Mentorship)</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>29</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>ACTIVE</th>
<th>EMERITIS</th>
<th>HONORARY</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUNTRY</td>
<td>DIPLOMATE</td>
<td>DIPLOMATE</td>
<td>MEMBER</td>
<td>TOTAL</td>
</tr>
<tr>
<td>Argentina</td>
<td>1</td>
<td>2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Australia</td>
<td>27</td>
<td>1</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Brazil</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Canada</td>
<td>35</td>
<td>8</td>
<td>2</td>
<td>45</td>
</tr>
<tr>
<td>Colombia</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Egypt</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>France</td>
<td>3</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Germany</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Grenada</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Ireland</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Israel</td>
<td>3</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Jordan</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Malaysia</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Mexico</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Netherlands</td>
<td>3</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>New Zealand</td>
<td>6</td>
<td>1</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Saint Kitts and Nevis</td>
<td>2</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>South Africa</td>
<td>6</td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Sweden</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>7</td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>United States</td>
<td>284</td>
<td>92</td>
<td>22</td>
<td>398</td>
</tr>
<tr>
<td>Venezuela</td>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>TOTALS</td>
<td>390</td>
<td>104</td>
<td>28</td>
<td>522</td>
</tr>
</tbody>
</table>

Breakdown by Employment Type:

Academia 197
Government 9
Industry 27
Private Practice 169
Retired 43
Other 77

Breakdown by Primary Species:

Mixed 57
Bovine 124
Canine 17
Equine 176
Feline 2
Porcine 6
Small Animal 43
Small Ruminant 9
Wildlife 1
Other 87
Clarence John Bierschwal


Bush attended Iowa State University in Ames, Iowa briefly before World War II led him to San Diego as a Radioman in the Signal Battalion of the U.S. Marine Corps. Ultimately based in Hawaii, Bush fought in the Pacific Theater of the War (1942-45). He landed on Iwo Jima, but never talked about it. If asked he would just say he carried the radio. Bush was honorably discharged 28 September 1945, continuing his military service in the Army Reserves until he retired a Colonel, U.S. Army Veterinary Corp. (1950-1988). He received the Distinguished Service Medal, 3 Army Meritorious Service Medals and the Army Achievement Medal.

After the war, Bush returned to Iowa State where he met and married the love of his life, Lorette Beryl Nelson on 27 December 1948. Iowa State is where Bush received his doctorate in Veterinary Medicine in 1950. Bush and Beryl moved to Excelsior Springs where he first practiced. About 1952 they moved to Columbia, Missouri when Bush joined the faculty as a Professor of Veterinary Medicine and Surgery at the University of Missouri College of Veterinary Medicine. Columbia is where they raised their two daughters, Beverly B. Sherman D.V.M. (Paul) now of Springfield, Missouri and Betsy A. McQuary, D.D.S. of Rogersville, Missouri. Football Saturday at their home in Columbia was pure black and gold. In those days, all walked through campus to Faurot Field as the Autumn leaves fell, picking up the pace when Marching Mizzou was heard to play in the distance. Rain or shine, win or lose, Bush would not leave the game until the end.

Bush taught veterinary medicine at the University for 34 years (1952-1986). There he established research and clinical programs in his specialty, large animal reproduction (Charter Diplomate and former President of the American College of Theriogenologists). At MU he was twice awarded the Distinguished Teacher Award. He also received the Alumni Faculty Award, Distinguished Professor Award, Distinguished Faculty Award, Dr. David Bartlett Lecture Award and the Iowa State University Stange Award. His professional career took Bush and Beryl around the world, they loved to travel and dance.

Bush loved his big band and swing music, Katy Trail, fishing, Jekyll, computers, photography, Missouri Tigers, Kansas City Chiefs, a great scotch and a fine cigar. He and his family spent a year in the Netherlands, (about 1968) on sabbatical while he taught and co-authored with Dr. C.H.W. de Bois the textbook “The Technique of Frenotomy in Large Animals”. It was in the Netherlands that Dr. de Bois introduced Bush to cycling. Bush was hooked on bicycling from then on. Veterinary students of his fondly recall making farm calls in a clinic truck with a bicycle tucked away in the back. After their farm calls were finished, Dr. Bierschwal would say “just let me off here” and then he bicycled the 30 miles or more back to the Vet School. They also report his classroom instruction was made more interesting because he loved to instruct using movies, he had made of actual procedures performed. Bush thoroughly enjoyed teaching, his students, his colleagues and photography, then along came computer digital photography. All along, he kept current, built his own computer, and could often be found late at night in his office editing film. Bush retired from the MU Vet School a Professor Emeritus. His portrait hangs in a place of honor at the Vet School to this day.

Truly, Bush and Beryl most enjoyed each other, family, and their many friends. Betsy has one son, Matt (Alex) of Ozark, and they have a young son James. Betsy has two daughters, Dr. Melissa Broaddus (J.T.) of Springfield (their son Sam) and Lindsey (Cody) of Charleston, South Carolina. Bev and Paul have two sons, Luke (Springfield) and Sam (Kansas City, engaged to Taryn Nash), and two daughters, Elise (Columbia) and Hayley (Iowa City). Bush leaves behind his cat, Tobew, now a new member of the Sherman household. All animals loved Bush, and he them.

Always active, always thoughtful of others, always positive, and always supportive, Bush taught us all many wonderful lessons, real life lessons including humility, hard work, responsibility and the importance of family and friends. Much loved, we miss him deeply and we will always smile knowing Bush and Beryl are together again. Bush passed away Saturday, October 17, 2020 in Springfield.

Dr. Bierschwal was a founding member of the ACT.

C. H. W. de Bois

Prof. dr. C.H.W. (Cornelis Hendrik Willem) de Bois was born on 10 July 1927 and passed away on 23 January, 2021. He received his veterinary degree from the University of Utrecht and was a Professor of Veterinary Obstetrics and Gynaecology at the University of Utrecht, from 4 March 1964 to 1 January 1985. On 29 November 1965, he gave an inaugural lecture on “The development of instrumental and surgical obstetrics in horse and bovine” and he was co-author (1972) of the classic manual on fetotomy (Bierschwal CJ and de Bois CHW, “The Technique of Fetotomy in Large Animals”).

William Cates

The family of William F. Cates announces his passing on June 13, 2020 in Vancouver.

William Francis Cates was born to James Earl and Catherine Elizabeth (Simpkins) Cates on July 18, 1926 in Prior Lake Minnesota. He was the second child and oldest son in a family of seven children. As a child of the Depression, Bill learned to hunt and fish at an early age and these became life long passions. His parents farmed and worked a dairy operation in the town, and Bill helped with this as he grew. He attended elementary school in Prior Lake and finished his high school
in nearby Shakopee.

Bill was 15 years old when Pearl Harbour was attacked in December of 1941, and as soon as he finished high school in 1944, he enlisted in the U.S. Navy, serving as a Gunner’s Mate on a minesweeper in the Pacific theater.

When the war was over and his enlistment done, Bill returned to Minnesota. He helped briefly with the family business, which by then had turned to home construction, and then began undergraduate work at St. John’s University near St. Cloud. After earning a Bachelor of Science, he was accepted into the University of Minnesota’s school of veterinary medicine, graduating with his DVM in 1954. This was the same year he married his sweetheart Ladonna Marie Scharf.

Bill worked a short time in the area while he and Donna started their family, but in 1955 they headed west to Mitchell, South Dakota, where he tried his hand at private veterinary practice. They were there a couple of years, and then returned to Minnesota, where he started on his PhD. He finished this in the early 1960s, working as an instructor at the U of M veterinary college at the same time.

All this time, the family was growing, and Bill and Donna now had five children to chase after. By the mid sixties, big changes were in store. The University of Saskatchewan was opening a veterinary college, the first in Western Canada. In 1965, Bill was offered a professorship there and the family moved to Saskatoon, where his youngest child was born, making it a family of six for Bill and Donna.

Bill enjoyed taking his family on weekend outings to places like Beaver Creek and the Forestry Farm. Sundays were special days that often involved a visit to the Victoria Ice Cream Shoppe and ended with the family gathered around TV to watch Walt Disney or Jacques Cousteau. His son Jim commented he knew Dad never played hooky from work because he always came home smelling like a cow pasture. When his children were young, it was common to see one or more of them in tow when Bill was called out to attend a sick animal.

Throughout their marriage Bill and Donna were inseparable. Their passion for dancing included several decades as members of The Happy Wanderers Square Dance Club. Bill was a quietly committed Catholic. When the family first moved to Saskatoon St Phillips Neri Church was still an unrealized vision and masses were held in a school gymnasium. Bill and Donna contributed towards building the church, supported the church’s projects in South America and were among the first lay people to dispense communion.

Bill played a pivotal part in getting the Western College of Veterinary Medicine started. He taught at the U of S and worked his practice on the surrounding farms and ranches. His specialty was bovine theriogenology - herd medicine and reproduction. He was very active in research and much respected in his field, and worked at the college until he retired in 1994. He was professor emeritus for several years after that, but he and Donna enjoyed retirement and made a number of trips to Arizona and Texas, always trying to fit in a little bird watching wherever they went. They bought property at a lake north of Saskatoon, and enjoyed their time there as well.

He and Donna moved to Vancouver in 2010, where their daughter Kitty helped them out as they grew older. Bill suffered a stroke in 2011, and moved into a care home, and the family was glad that Donna was able to join him in the same home shortly thereafter.

Bill is predeceased by his beloved Donna (2015), and his siblings Jack, Anne Mae, Rosie, and Jim. He is survived his older sister and her husband (Kate and Duke Schrader), his sister in law (Pat Cates), his youngest brother and wife (Larry and Betty Cates), his six children (Steve, Cindy, Kitty, Jim, Barb, Michelle) and by his 4 grandchildren (Joel, Ryan, Zoé, and Connor).

Dr. Cates was a charter member of the ACT.

John Melancon

John Joseph Melancon, age 77 of St. Cloud passed away on Friday at the St. Cloud Hospital.

John was born September 12th, 1943 in St. Paul, MN to Joseph and Phyllis Melancon. He was known for his bright smile, generous spirit, and ability to easily make friends. He and wife Nancy visited many corners of the world making numerous friends along the way. When not travelling the globe, John enjoyed spending time with his adored children and grandchildren, playing bridge, fishing, and hunting. Always quick with a "Dad" joke, he relished time with family and friends playing parlor games, sitting by an open fire, or watching a movie with homemade popcorn.

While calling Stearns County home for more than 30 years, John grew up in the Highland Park neighborhood in St. Paul. He completed undergraduate studies at St. Thomas and went on to obtain a doctorate from the College of Veterinary Medicine at the University of Minnesota. John owned a veterinary clinic in Sauk Center for many years and then went on to work in veterinary pharmaceuticals. He retired from Merck/Merial in 2003.

He is survived by his wife, Nancy Gilbert; children, Maggie (Erik) Daugherty, Mike (Emily) Melancon, Toni Melancon, Jay (Mary) Melancon, Nathan Gilbert; siblings, Tom (Elizabeth Dichter) Melancon, Mary (Tom Spencer) Melancon, Jeanne (Bob) Dolan; and seven grandchildren.

He is preceded in death by his parents; and wife Carol.

Willis Parker

Dr. Willis G. Parker of Clayton, IN died peacefully on April 15, 2021 at Life's Journey Hospice of Avon. Willis, son of the late Roy and Doris (Kelly) Parker was born on June 10, 1936 in Greencastle, IN. Willis and his twin sister Willa Dean spent their early years growing up on the family farm near Coatesville. As a young boy he was active in both 4-H and FFA and graduated from Amo High School in 1954. He volunteered for the draft and served in the U.S. Army from 1954 to 1956.

Following his military service, Willis attended Purdue University where he earned his Bachelor of Science Degree in Agriculture in 1960. As an undergraduate student he resided in Rochdale Co-op House and participated in Purdue Reamer Club, Baptist Student Foundation, and Purdue Men's Varsity Glee Club. Upon graduation he married Linda Owens on August 14, 1960. They started their life together in West Lafayette, IN where Willis entered the Purdue University School of Veterinary Medicine. He received his Doctor of Veterinary Medicine Degree with the second graduating class in 1964. After graduation Willis and Linda, along with their son Eric, returned to their roots near Coatesville where Willis established a mixed veterinary practice. After the birth of their daughter Lisa, he made the decision to pursue his interest in animal reproduction and in 1965 accepted the position of staff veterinarian at American Breeders Service (ABS) located in DeForest, WI where he worked for 26 years. The family's primary residence was in Poynette, WI where Willis served several years on the Poynette Public Schools’ Board of
Throughout his life, Willis was a humanitarian who was committed to his profession as well as service to others. He was a member of the American Veterinary Medical Association (AVMA) as well as the IVMA and WVMA, the American Association of Bovine Practitioners, the Society of Theriogenology, and the American College of Theriogenologists which he served as a diplomat and president from 1983-84. In 1990, Willis represented ABS on a trade mission to Lithuania. This experience spurred his consulting and educational programming trips to the Baltic countries and to Ethiopia with Project Mercy. In addition, he served several weeks in the United Kingdom for the U.S. Department of Agriculture's Animal Disease Eradication Program. For his professional contributions, Willis was recognized by the WVMA as the 1991 Wisconsin Veterinarian of the Year and in 2000 was recognized by the IVMA as the Indiana Veterinarian of the Year. In addition, Willis was presented the Purdue University School of Veterinary Medicine’s 2000 Distinguished Alumnus Award.

Willis's faith and values were an important aspect of his life. While a member of the Congregational United Church of Christ in Windsor, WI he served as moderator and on various church boards. During his several years of service on the Corporate Board for World Ministries of the United Church of Christ, he traveled to Sri Lanka on a mission trip. At the time of his death, he was a member of Hope United Presbyterian Church in Plainfield, IN where he served as an elder and contributed greatly to their mission projects.

Following his retirement in 1991, Willis and Linda returned home to Indiana where he established the Mill Creek Christmas Tree Farm on the family farm near Coatesville. He also continued his passion for historic preservation of agricultural implements, especially those related to the horse. He was a member of the Horse Brass Society of England and the Belgian Draft Horse Corporation of America. His interest in history included collecting postcards and he was a member of the Indianapolis Postcard Club. Willis also served his home county by helping to establish the White Lick Heritage Community Foundation, now the Hendricks County Community Foundation, and was a past president of its board of directors.

It is often said you can take the boy off the farm, but you cannot take the farm out of the boy. Willis often shared his love of the family farm with his granddaughters. He delighted in taking them there to share the joy of nature and his appreciation for agriculture.

In addition to his parents, Willis was preceded in death by his son Eric and nephew Christopher Yeager. He is survived by his wife Linda, his daughter Lisa Parker-Gummere and son-in-law Jeff Gummere, and granddaughters Erica and Anna. He is also survived by his sister Willa Dean Yeager, nephew Alan (Abby) Yeager, and great nephews Logan and Adam. In addition, he is survived by a large and beloved extended family.

From the President of the Theriogenology Foundation

Wow! What a year! I hope this finds all of you healthy. One year ago I was learning to negotiate curbside service, trying to understand what type of a/c filters would trap viruses, and figuring out which masks would not leave my ears raw. All this while dealing with an unexplainable increase in workload. It seems like January, 2020 was a very long time ago.

Along with learning how to practice in a pandemic, it didn’t take much reflection to realize the other important aspects of life. Faith has always been a priority for me. Time with family became precious, particularly those family members that the pandemic made more difficult to see. The same goes for friends and our therio family. I am very excited to have an “in person” conference in Omaha this July. There are so many of you that I ache to see, and as great as zoom is, it is not the same.

The TF board has been busy during the last year. We have worked to continue providing benefits to students, with your help, to fund externships, research, student chapter events and speakers. The AKC/AKC CHF/TF residency program is still going strong. Although the Working Dog Project is not directly affiliated with TF, we are still supporting the important work that WDP is doing. And our newest project, the Nandi Scholars Program, is up and running. We will be presenting four scholarships to some incredible fourth year veterinary students in Omaha this year.

None of this would be possible without the hard work of many. Importantly, many of the individuals responsible for the success of these programs are not TF board members. When Dr. Jim Floyd, who heads up the Nandi Scholars Program, put together a team of applicant reviewers, I was pleased (but not surprised) at how quickly our SFT/ACT membership stepped up to the difficult task of reviewing the applications. A huge thanks to all who helped make this possible.

We are able to continue to help so many thanks to the generosity of all of you. Thanks for your support. I hope that you will be able to attend the awards banquet this year in Omaha and get to meet our inaugural group of scholarship recipients.

Please stay well. Please don’t hesitate to contact me if I can help you in any way. I’m looking forward to seeing everyone sans the computer screen.

Mike

Future Theriogenology Conference Dates

Sponsored by
The Society for Theriogenology
and
The American College of Theriogenologists

MAKE PLANS NOW TO JOIN US AT THE FOLLOWING LOCATIONS:

- 2021
  - July 21-July 24
    - Omaha, Nebraska
- 2022
  - July 20-July 23
    - Bellevue, Washington
- 2023
  - July 19-July 22
    - Birmingham, Alabama
2021 Certifying Exam Committee Report

The ACT Certifying Exam Committee has been very active in the past year. Not only has the committee reviewed, updated, and set 2021 examination, there have been multiple efforts to update the examination process due to the electronic nature of our examination. Many thanks to the committee for their hard work and dedication to this committee: Brian Whitlock, Past-Chair; Julie Cecere, Chair; Ahmed Tibary, Vice-Chair; Kara Kolster, ACT Secretary; Jo Randall, Soon Hon Cheong and Jacobo Rodriguez. A summary of the committee’s efforts, outside of examination preparation and review, are below:

1. A thorough question bank cleanup is underway. Each essay question in the bank was reviewed, assigned knowledge domain(s) and inventoried. Multiple choice questions will be reviewed over the next year. This is in an effort to maintain alignment with the current Job Task Analysis (JTA), which is the basis for the species and knowledge breakdown of the certifying examination as well as training skill sets. The JTA sets these parameters based on membership demographics and responses, so you as an ACT member are actively involved with the process. Please stay tuned for future requests of the ACT membership to submit new questions for use by the Examination Committee as well as an updated JTA survey, which is essential to creating a balanced and appropriate certifying examination for the ACT.

2. A completed movement towards a fully electronic examination has occurred. ExamSoft has been used as the examination platform since 2017. Due to COVID, the 2020 examination was administered remotely with live proctors. This electronic process was well received and this year we are adding the use of artificial intelligence (AI) proctor software. It is likely that the examination will follow the remote format moving forward with the use of AI proctoring software for ease of candidate and mentor travel as well as time zone and work constraints.

3. All forms related to the examination were revised to reflect the use of electronic software and AI proctors. This was essential to encapsulate this historic change for the ACT certifying examination process.

4. Dr. Réjean Lefebvre was selected as the new member of the Exam Committee, to replace Dr. Brian Whitlock. Dr. Lefebvre has accepted this nomination and will start his duties on the committee after the Annual Conference at the end of July 2021.

Dr. Brian Whitlock is finishing his term and will be leaving the committee this year. We are grateful for all his contributions to the committee, his friendship, and his stories. If you have not had the chance to sit around a dinner table with Brian I highly suggest it, you will not walk away the same person. All of us will miss him.

Lastly, the 2021 Certifying Examination will be administered July 13th and 14th electronically via Examsoft and AI proctor software. All successful candidates will be announced at the ACT Business meeting July 22 as well as new ACT members from 2020.

Sincerely,

Julie T. Cecere

ACT Certifying Examination Committee Chair

---

Thank you!

A huge thank you to the following individuals for all their efforts in planning the 2021 conference!

- **Annual Conference Program Chair**
  Dr. Ahmed Tibary

- **Equine Track Program Chair**
  Dr. Karen Wolfsdorf

- **Production Animal Track Program Chair**
  Dr. Juan Romano

- **Small Animal Track Program Chairs**
  Drs. Julie Cecere and Orsolya Balogh

- **Reproductive Pathology Symposium Chair**
  Dr. Christopher Premanandan

- **Zoological Species Theriogenology Symposium Chair**
  Dr. Anneke Moresco

- **Student Seminar Chair**
  Dr. Juan Samper

- **Silent Auction Chairs**
  Drs. Jim Floyd and Will Schultz

- **Live Auction Chair**
  Dr. Jim Floyd
Dr. Gary Althouse received his BS degree from Sul Ross State University, his MS from Texas A&M University, and he completed a combined program leading to both DVM and PhD degrees at Iowa State University. Althouse became board certified with the American College of Theriogenologists in 1995. He joined the faculty at the School of Veterinary Medicine at the University of Pennsylvania (Penn Vet) in 2001. In 2011, he was named to the Marion Dilley and David George Jones Endowed Chair in Animal Reproduction. In 2019, Althouse was appointed Associate Dean of Sustainable Agriculture and Veterinary Practices. Additional leadership roles have included serving as president for both the Society for Theriogenology, and for the American College of Theriogenologists.

Althouse’s efforts focus on global food supply and food security. He is the founder and director of Penn Vet’s Reference Andrology Laboratory, which provides both critical research and clinical services in food animal production. He currently provides services to clientele throughout North America, with his current work having a direct impact on ~34% of the U.S. swine breeding herd. Globally, he provides veterinary consultation services in the remaining Americas, Europe, Asia, and Australia. Collectively, these experiences are woven into Dr. Althouse’s teaching efforts in the areas of theriogenology and swine production medicine.

Althouse has been fortunate to have had many influential mentors over his career, including L. Evans, S. Hopkins, W. Hsu, M. Pineda and S. Seager. Over the past 27 years, he has enjoyed mentoring numerous talented veterinary and graduate students, faculty, post-doctoral fellows, interns and residents.

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 2022 and 2023, 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, 2021.

**Theriogenologist of the Year Dr. Gary Althouse**

**Vice President nominees**

**Leonardo Brito**

Dr. Brito, DVM, MSc, MVetSc, PhD is the Director of Global Quality Assurance at STGenetics and an associate editor of the journal Theriogenology. He became a diplomate of the ACT in 2004, served on the Certifying Examination Committee from 2009 to 2015, served on the ACT Executive Board as Treasurer from 2017 to 2020, and is currently serving on the newly created Standard Setting Committee. More details of education and professional experience can be found at [https://www.linkedin.com/in/lbrito/](https://www.linkedin.com/in/lbrito/).

If given the opportunity to serve the ACT, Dr. Brito would focus on initiatives to promote the specialty and increase the College membership. Student marketing: promote the College to veterinary students by participating in national events as an exhibitor, providing speakers, and supporting other scholar activities. STF Student Chapters: promote organization of mentor network to exchange experiences and practices, support new mentors, and stimulate creation of new chapters; organize network of diplomates willing to support chapters through presentations and other instructional activities; promote cross-chapter student interactions; support industry lobbying efforts to secure financial support for student chapters. Residency training opportunities: support food-animal and equine industry lobbying efforts to secure financial support for residencies building on the successful AKC experience. Alternate Training Route: facilitate mentorship by organizing support network of prospective mentors, and sharing study plans and instructional materials; facilitate completion of clinical training requirements by organizing network of clinical trainers to include diverse geographical distribution and species representation; facilitate completion of scientific publication requirement by organizing network of specialists to provide expert advice on experimental design or case report planning, data analysis, manuscript writing, and peer-review process. Graduate Training Route: charge the credentialing committee with studying the re-institution of this training route in ways that would ensure minimal clinical competency and at the same time tap into the enormous benefits and diversity expert scientists would bring to the College.
Karen Wolfsdorf

Dr. Wolfsdorf obtained her DVM from the University of Florida, College of Veterinary Medicine in 1992. She completed an internship in equine field service at North Carolina State University and a Theriogenology residency at the University of Florida. Dr. Wolfsdorf became a Diplomate of the American College of Theriogenologists in 1995 then entered equine private practice as a specialist in reproduction first in Australia then at Hagyard Equine Medicinal Institute where she is presently a partner and specialist in reproduction and field care. Dr. Wolfsdorf served on several committees in SFT, AAEP and ISER. She served ACT as a board member and as a member of the training and credentialing committee. Dr. Wolfsdorf has authored several peer-reviewed articles and book chapters in the field of equine reproduction. She has contributed numerous presentations and proceedings at national and international conferences. She enjoys interaction with practitioners and veterinary students. She has lectured to several student chapters of the Society for Theriogenology.

Dr. Wolfsdorf is committed to advancement of the specialty of theriogenology in practice and veterinary education.

Board of Director nominees

C. Scott Bailey

I am C. Scott Bailey and I would be honored to serve as an executive board member. I graduated from Kansas State University in 2003 and pursued a theriogenology residency at the University of Florida 2005-2008, achieving diplomate status in 2008. I subsequently completed an MS at the University of Florida under the guidance of Dr. Macpherson and then moved to North Carolina to serve as a faculty member at NCSU from 2009-2019. I had a multi-species interest with clinical programs focused primarily on equine and canine reproduction and research projects that stretched across genera. In 2019, I left academic practice and moved to central KY to serve as resident veterinarian of Claiborne Farm, where I supervise the general and reproductive care of approximately 500 horses and continue to pursue clinical and collaborative research projects through NCSU and the University of Kentucky.

Like many members of our college, I have a broad interest in veterinary reproductive physiology and medicine, and varied clinical experience to match that. I have provided instruction to veterinary students at four different institutions and mentored both house officers and graduate students to successfully develop a career in theriogenology. I am passionate about the mission of fostering the development of clinician scientists who will aid our (collective) patients and clients, and further the knowledge in our field. I am also passionate about the need and opportunity for research arising from clinicians in private practice and hope to emulate some of the great members of our college who precede me in this endeavor. Our college has an ongoing important role to play, both through its mentorship of prospective members and through its outreach to veterinarians, students, breeders and owners. I very much look forward to participating in this important work.

Thank you once again for giving me the opportunity to run for the position of Executive Board member.

Aimee Johnson

I entered private practice for 5 years following graduation from vet school (equine and mixed animal), but decided I wanted to specialize. I returned to “school” and completed my residency training at Texas A&M. This perspective allowed me to be a better specialist as I was able to gain experience in a large volume repro clinic, but also be in the world of general practice. I joined the faculty at Auburn University in 2007 and have enjoyed my career here. I was certainly strongest in equine after my residency, but due to clinical needs at Auburn, I have expanded to companion animal therio and am now comfortable in both. I am one of the few theriogenologists comfortable with feline reproduction. I became involved in Auburn’s research cattery in 2008 when the fertility of the colony had declined to the point that they were unable to obtain animals for research. Since that time, I have learned through experience and now consult on catteries all over the US.

My research experience is concentrated in the horse and cat. Most notably, I have collaborated with several researchers using methods of non-surgical castration in small animals and estrus suppression in mares. Outside of theriogenology, I am also involved heavily with viral vectored gene therapy for degenerative neurologic disease in the cat as a model for a neurodegenerative, fatal disease in children. Through this research, clinical trials began last year and children with these diseases are showing improvement.

I look forward to serving my specialty though this board position. My children are older and I want to dedicate time to my fellow ACT diplomates. I admire those currently serving and I hope to emulate some of the great members of our college who precede me in this endeavor. Our college has an ongoing important role to play, both through its mentorship of prospective members and through its outreach to veterinarians and academia and from my experience in a variety of species. I am also the student theriogenology advisor at Auburn and hope to have a part in encouraging students to pursue theriogenology and board certification to the betterment of our specialty.
Honorary Member nominees

Jon Oatley

Jon M. Oatley, Ph.D. is the Director of the Center for Reproductive Biology and a full Professor in the School of Molecular Biosciences at Washington State University. Dr. Oatley received a Bachelor of Sciences degree in Animal Sciences from the University of Nevada-Reno, Master of Science and Doctor of Philosophy degrees from Washington State University, and was a postdoctoral fellow in the laboratory of Dr. Ralph Brinster at the University of Pennsylvania. Over the course of two decades, Dr. Oatley’s research has focused on understanding the biology of germ cells which are the eternal cellular link between generations. Dr. Oatley’s research also focuses on engineering the genetics of farm animals to develop more efficient avenues for feeding the expanding global human population. Dr. Oatley has authored more than 80 scientific research papers, book chapters, and news articles on the areas of germ cell biology and animal genetic engineering. As an independent investigator, his research program has been funded by multiple grants from the National Institutes of Health, the United States Department of Agriculture, and industry contracts.

Gary Warner

Dr. Warner grew up in north Louisiana in a family run cow/calf and stocker operation. His dad moved the family to Ferriday, Louisiana in 1965 where his dad operated an auction barn and continued in the cow/calf business and was also a procurer of replacement cows. Dr. Warner received a BS from the University of Louisiana at Monroe in 1977 and received his DVM degree from the Louisiana State University School of Veterinary Medicine in 1980. Immediately after graduation, Dr. Warner entered clinical practice as a mixed animal associate at Elgin Veterinary Hospital. After 2 years of employment, he became a partner and developed a primary interest in large animals and eventually, just beef cattle practice. Today, the practice is largely referral based, focusing primarily on lameness and reproductive problems in both the male and female. Dr. Warner has been actively involved with the Professional Bull Riders as a consultant and practitioner for many years, providing for animal welfare and the well-being of the animals involved in their sport. He sustains a very active presence within the industry.

Other practice interests involve the purebred and show cattle industries and servicing the needs of individual producers. He has been actively involved in the show steer industry in Texas, helping many children with their projects and even raising a few of his own. All three of his children grew up showing steers with many championships. Two of his children, Dr. Jenna Beyer and Dr. Kelly Warner, now practice veterinary medicine and the youngest, Jacob, is a 2nd year veterinary student at Texas A&M University College of Veterinary Medicine. Dr. Warner is a career-long member of AVMA, TVMA, (served as longtime member and chair of The Beef Practice Committee), AVC, AABP, PAC and the Society for Theriogenology, where he served a long tenue on the executive board culminating in becoming president of that organization in 2011-2012. Dr. Warner, along with his wife Terry, remain actively involved in the cattle industry at their ranch north of Elgin; producing show steers and high-quality replacement females. He continues to support the beef cattle production community and is always available to colleagues for consultation.

2021 Scientific Information/Abstract Committee Report

We want to thank all authors for their support and contributions to the scientific program of the 2021 Theriogenology Conference to be held in Omaha, Nebraska. We received 61 abstracts for consideration in the following categories: 19 Competitive Abstracts, 27 Non-competitive Abstracts, 14 Case Report Abstracts, and 1 Poster Abstract. 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 July 21, 2021. The remaining abstracts were assigned to their respective species-specific sessions: Equine - 8 abstracts; Mixed Species - 9 abstracts; Production Animal – 8 abstracts; Case Reports – 8 abstracts; and Posters – 12 abstracts. All abstracts will be included in the conference proceedings published in Clinical Theriogenology. The current members of the Scientific Abstract Committee are Drs. Candace Lyman (Chair), Julie Gard Schnuelle, Orsolya Balogh, Jennifer Roberts, and Julia Baldrighi. Drs. Gard Schnuelle and Roberts will end their terms in August 2021. Drs. Roberto Palomares (4-year term) and Jamie Stewart (2-year term) are the new members of the Abstract Committee. 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 are also calculated in the final presentation score. We hope to see you in Omaha!

Sincerely,
Candace Lyman
Therio Conference Scientific Abstract Committee Chair
Thank you to our 2021 Sponsors!
(as of 5/21/21)

Platinum Plus Sponsor

[Merck logo]

Platinum Sponsors

[Idexx logo]

Gold Sponsor

[Rood & Riddle logo]

Silver Sponsors

[Bovine Services logo]

[BioProPlan logo]

[BioProPlan logo]

Bronze Sponsor

[BioMerieux logo]

Thank you to our 2021 Exhibitors!

The American Kennel Club, Inc.  MicroVet Diagnostics
bioMérieux  MILA International, Inc.
CargoSense, Inc.  Minitube USA
Christian Veterinary Mission  Multimine, Inc.
E. I. Medical Imaging  Professional Embryo Transfer Supply, Inc.
IDEXX  Puppywarmer
IMV Imaging  Rood & Riddle Equine Hospital
Jorgensen Laboratories  Universal Imaging, Inc.
KARL STORZ Veterinary Endoscopy America Inc.
**Wednesday, July 21**

**Opening Session Abstracts**

**Opening Session Reception**

**Reproductive Pathology Symposium (additional registration required)**

**Zoological Species Theriogenology Symposium (additional registration required)**

**Student Seminar: Critical Thinking in Practice: What does it look like?**

**Reproductive Pathology Symposium (additional registration required)**

8:00 am - 5:00 pm

**Introduction**

Christopher Premanandan, DVM, PhD, DACVP, DACT

**General concepts in failure of pregnancy**

Christopher Premanandan, DVM, PhD, DACVP, DACT

**Equine/Camelid failure of pregnancy**

Robert A. Foster, BVSc, PhD, MANZCVS, DACVP

**Ruminant failure of pregnancy**

Dalen Agnew, DVM, PhD, DACVP

**Canine/Feline failure of pregnancy**

Robert A. Foster, BVSc, PhD, MANZCVS, DACVP

**Round table Q/A session**

Drs. Agnew, Foster, and Premanandan

**General concepts in perinatal mortality**

Christopher Premanandan, DVM, PhD, DACVP, DACT

**Ruminant perinatal mortality**

Robert A. Foster, BVSc, PhD, MANZCVS, DACVP

**Equine/Camelid perinatal mortality**

Dalen Agnew, DVM, PhD, DACVP

**Canine/Feline perinatal mortality**

Drs. Agnew and Premanandan

**Case based roundtable/discussion**

**Zoological Species Theriogenology Symposium**

(additional registration required)

7:30 am - 4:30 pm

**Welcome**

Overview of traditional and novel approaches to amphibian reproduction in zoological institution

Jessi Krebs, OHDZA Curator of Reptiles and Amphibians

**Birds-General husbandry as it pertains to reproduction**

M. Scott Echols, DVM, DABVP (Avian Practice)

**Birds- Common reproduction problems and diseases**

M. Scott Echols, DVM, DABVP (Avian Practice)

Overcoming reproductive disorders in female greater one-horned rhinoceros (Rhinoceros unicornis) to improve artificial insemination and natural breeding success

Monica Stoops, MS, PhD Lead Scientist, Comparative Endocrinology OHDZA

**Assisted reproductive technologies for endangered felids**

Jason Herrick, PhD, Director of Reproductive Services

**Zoo Clinical Challenge- Gorilla infertility**

Anneke Moresco, DVM, PhD, Zoo Reproductive Specialist

**Current understanding of elephant reproduction**

Dennis Schmitt, DVM, PhD, DACT

**Application of domestic dog theriogenology practice in wild canids**

Bruce Christensen, DVM, MS, DACT

**Avian reproductive tract diseases**

M. Scott Echols, DVM, DABVP (Avian Practice)

**Developing assisted reproduction for reptiles, what’s next?**

Sean Perry, DVM, PhD
Attendees will have the options of attending a seminar by Drs. Echols and Perry discussing “Advanced topics in reptile and avian reproduction” or traveling to the Henry Doorly Zoo and Aquarium for a behind the scenes tour.

Student Seminar
1:00 pm - 5:00 pm

Critical Thinking in Practice: What does it look like?
Juan Samper, DVM, PhD, DACT

Opening Session Abstracts

Luteinizing hormone receptor activation stimulates endothelial adhesion of neoplastic canine T-lymphocytes
Alexa Dietz

Suitability of non-cycling recipient mares for in vitro produced equine embryos
Charles Scoggin, DVM, MS, DACT

The temporal associations of B-mode, Power doppler, and ovarian steroid changes of the periovulatory follicle and corpus luteum during luteogenesis and luteolysis in jennies
Humberto Magalhaes, DVM, MSc

Cholesterol‐loaded cyclodextrin improves cooling and fertility of donkey semen
Lorenzo Segabinazzi, DVM, MS

Characterization of reproductive parameters from Pennsylvania bull elk (Cervus canadensis)
Luisa Ramirez-Agamez, DVM

Serum prostaglandin E metabolite (PGEM) in diestrus and pregnant mares
Mariana Diel de Amorim, DVM, DVSc, PhD, DACT

Expression and abundance of prostaglandins in the healthy and fibrotic mare endometrium
Michael Byron, MSc

Umbilical vein catheterization as an option for intravenous access in neonatal puppies
Soon Hon Cheong, DVM, PhD

Thursday, July 22

Bartlett Award and Address
Theriogenologist of the Year Award and Address
Dr. Jerry Rains Memorial Abstract Competition sponsored by Merck Animal Health
SFT Business Meeting
ACT Business Meeting
Student Case Presentations
Student Research Presentations

Student/Mentor Reception
Opening Reception in the Exhibit Hall

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

Comparison of nanoparticles and single-layer centrifugation for separation of dead from live stallion spermatozoa
Christian Bisiau, DVM

No adverse effect of air exposure on stallion sperm motility after 48 hours of cooled storage
Emily May, DVM

Epididymal sperm granulomas are associated with antisperm antibodies in frozen-thawed donkey semen
Giorgia Podico, DVM, MSc

Laser ablation of the equine oviductal papilla as a novel contraceptive technique
Grace Edwards

Clinical and physiological ultrasonography of normal and abnormal donkey pregnancies
Humberto Magalhaes, DVM, MSc

Comparing serum progesterone measurements by a point-of-care analyzer with a chemiluminescent immunoassay in breeding management of the bitch
Julia Zuercher

Mammary gland electrolytes and pH to detect impending parturition in jennies
Lucas Canuto, DVM, MSc

The effects of Kisspeptin-10 on equine chorionic girdle trophoblast cell in vitro migration
Viviane Gomes, DVM, DACT

Student Case and Research Presentations sponsored by Bovine Services, LLC.

Incidence of and factors affecting congenital defects in miniature Dachshunds
Colleen Kutzler

Electroejaculation and breeding soundness exam on a clouded leopard
Taylor Lashlee

Preputial prolapse and injury in a Brahman bull
Maryanna Hudson

Atypical mammary mass in an intact geriatric female Labrador retriever
Colleen Kutzler

Abnormal mobility in neonatal Labrador Retrievers
Jordan Farrell
Recurrent uterine torsion in an Arabian mare

Vaiva Palunas

Dystocia and diaphragmatic hernia in a Quarter Horse mare carrying twins

Vaiva Palunas

Vulvar discharge associated with exogenous estrogen exposure in a spayed Weimaraner bitch

Camille Ogdon

Phimosis and preputial abscessation with draining tract in an Angus bull

Rachael Doenges

Spermatic cord torsion in an Arabian stallion

Hannah Neer

Friday, July 23

Plenary Session

Scientific Abstract Presentations

Scientific Abstract Poster Presentations

Species Tracks

Awards Dinner Reception

Awards Dinner, Veterinary Story Night, & Live Auction

sponsored by Merck Animal Health

Plenary Session

sponsored by the American College of Theriogenologists

History of the ACT: Celebrating 50 Years

John Kastelic, DVM, MS, PhD, DACT

Surrogate sires: A next generation breeding tool in livestock production

Jon Oatley, MS, PhD

Case Abstracts

Reduction of equine monozygotic twins using craniocervical dislocation via colpotomy

Adam Bassett, DVM, MS

Proteomic analysis of sperm from a subfertile stallion with impaired acrosomal exocytosis

Camilo Hernandez-Aviles, DVM

Anaphylactic reaction following intrauterine application of misoprostol in a Friesian mare

Jordan Kiviniemi-Moore, DVM

Polled intersex syndrome in a four month old Finnish Landrace lamb

Katelyn Waters, DVM

Chronic seminal vesiculitis and blocked ampullae in a Gypsy Vanner stallion

Lauren Huggins, VMD, MS

Thoraco-omphalopagus conjoined twins in a Standardbred mare

Matthew Cochran, DVM

Next-Generation Sequencing to aid decision making for when to discontinue antibiotic treatment in a Stallion with Actinomyces spp. in semen

Soon Hon Cheong, DVM PhD

Thromboembolic disorder in a post-cesarean section bitch

Yamilka Lago-Alvarez, DVM

Equine Abstracts

Low volume uterine lavage: advantages for use in problem mares

Christina Divine, DVM

Pre-partum amniotic rupture in a Thoroughbred mare

David Alexander, DVM

Daily sperm out, spermatogenic efficiency, and sexual behavior of donkey jacks mounting jennies in estrus

Humberto Magalhaes, DVM, MSc

Pregnancy rates and ovarian activity following uterotubal infusion of n-butyl cyanoacrylate via a hysteroscopic approach in mares: a pilot study

Irwin Liu, BSc, DVM, PhD

Oocyte collection rate and in vitro embryonic development in the mare with administration of low-dose deslorelin

Jennifer Hatzel, DVM, MS, DACT

Evaluation of passively acquired rabies antibody titers and immune responses in healthy foals vaccinated against at 4 or 6 months of age

Karen Wolfsdorf, DVM, DACT

Prospective ultrasonographic evaluation of the caudal placenta and cervix in pregnant mares in relationship to foaling outcomes and placental abnormalities

Kristina Lu, VMD, DACT

The use of progesterone and estradiol-17-beta prior to transvaginal aspiration of oocytes

Peyton Draheim, DVM
Mixed Species Abstracts

Using reflection to optimise student engagement during theriogenology practical classes; the benefits of mentoring and peer support in teaching
Allan Gunn, BVM&S, DACT, FRCVS

Screening canine sera for smooth Brucella strain antibodies via Brucella abortus Fluorescent Polarization Assay
Alyssa Helms, DVM

Sperm acrosome associated 3 protein expression in the feline ovary decreases with age
Ann Ramsey

Infertility, pregnancy, and concurrent pyometra in a Greater Swiss Mountain Dog
Brittany Shumack, DVM

Fetal loss at time of elective cesarean section in a Greater Swiss Mountain Dog
Brittany Shumack, DVM

The agreement level among four techniques for analysis of stallion sperm morphology
Camilo Hernandez-Aviles, DVM

Factors affecting survival and future foaling rates in thoroughbred mares with hydrops
Louise Lemonnier, DVM

Vaginal vault diverticulum causing functional urinary obstruction in a maiden bitch
Marthina Greer, DVM

Comparison of 2D and 3D ultrasonography for gestational aging in dogs
Sabina Pestelacci, DVM

Production Animal Abstracts

Melatonin and l-arginine mitigate heat stress-induced reductions in quality of frozen-thawed ram sperm
Abdallah Mohamed, BVSc, MSc

An example of incorrect storage of bull semen samples on spermiogram assessment
Allan Gunn, BVM&S, DACT, FRCVS

Association of metabolic status with uterine diseases and reproductive outcomes in lactating Holstein dairy cows
Andrew Hubner, DVM

Effect of GnRH administered at the time of AI for dairy cows detected in estrus by an activity monitoring system or by conventional estrus detection
Andrew Hubner, DVM

Evaluation of ovarian response to PG600 in alpacas
Eduardo Arroyo, DVM

Morphometric characteristics, testicular histology, and semen parameters of two mature hybrid bucks born from white-tailed deer dams sired by a mule deer buck
Giorgia Podico, DVM, MSc

A preliminary study on bovine prenatal sex determination using PCR on maternal peripheral blood
Navgeet Singh, BVSc & AH, MVSc

Obstructive urolithiasis in a Dromedary camel
Yatta Boakari, DVM, MS, PhD

Abstract Poster Presentations

Ovine male pseudohermaphrodite (Katahdin) with testes adjacent to the mammary gland
Alyssa Ball, DVM, MS

Reproductive tract findings in a Thoroughbred filly with non-patent uterus, considered congenital failure of a normal uterine lumen
Christine Bartley, DVM

Identification of fetal bones in the uterus of a Thoroughbred mare
Ethan Sutherland, DVM

Respective pregnancy rates and subsequent pregnancy losses of in-vitro produced embryos from oocytes aspirated at two facilities, transported to 3 commercial ICSI labs and resulting embryos transported and transferred at two commercial recipient herds
Etta Bradecamp, DVM, DACT, DABVP

Luteal blood flow and side effects of luteolytic doses of dinoprost tromethamine and cloprostenol sodium in jennies
Humberto Magalhaes, DVM, MSc

Induction of parturition in a late gestation Thoroughbred broodmare with colon displacement
Lauren Pasch, DVM, DACT

Methods to prepare platelet-rich plasma for use in mare practice
Lorenzo Segabinazzi, DVM, MS

Sperm-filter enhanced semen parameters and fertility of stallion poor cooled semen
Lorenzo Segabinazzi, DVM, MS

Intra-uterine injection of amnion-derived acellular bioscaffold product in mares, a description of systemic and intra-uterine effects over 21 days
Nathaniel Newton, DVM,
Incidence rate of reproductive problems in non-pregnant mares
*Patrick McCue, DVM, PhD, DACT*

Effect of Hytryl on fresh-cooled semen motility in two semen extenders when stored at 5 degrees Celsius for 72 hours
*Rachel Fladung, DVM*

Uterus unicornis in a maiden Standardbred mare
*Stephanie Walborn, DVM, DACT*

**Small Animal Track sponsored by IDEXX**

Reproductive biology and assisted reproductive technologies in felids
*Nucharin Songsasen, DVM, PhD*

Current and future perspective of reproductive technologies in domestic and wild canids
*Nucharin Songsasen, DVM, PhD*

Comparison of OFA and PennHIP results for canine hip dysplasia screening
*Robyn Wilborn, DVM, DACT*

**Production Animal Track sponsored by Lane Manufacturing, Inc.**

Single cell transcriptomics to understand germ cell function in livestock
*Jon Oatley, MS, PhD*

Pregnancy loss in ruminants
*Andres de la Concha, DVM, PhD*

Bovine trichomoniasis
*Jeff Ondrak, DVM, MS*

**Equine Track sponsored by Rood & Riddle Equine Hospital**

Examination of fresh, cooled and frozen semen
*sponsored by the Michelle LeBlanc Equine Memorial Lectures*
*Charles Love, DVM, PhD*

The use of immunomodulators in equine reproduction: How do they work and when should they be used
*Carleigh Fedorka, PhD*

Use of nonantibiotic therapies for endometritis: What, when, and why
*Kristina Lu, VMD, DACT*

**Saturday, July 24**

So you want to become a Diplomate?

**Species Tracks**

**Small Animal Track**

**Small Animal Track sponsored by IDEXX**

Medical control of reproduction in the bitch: an update
*Alain Fontbonne, DVM, PhD, DECAR*

Medical control of reproduction in the male dog: the experience of Alfort Veterinary College
*Alain Fontbonne, DVM, PhD, DECAR*

Medical control of reproduction in the cat: old and new drugs
*Cindy Maenhoudt, DVM, DACT, DECAR*

Use of anti-progestins in Europe
*Cindy Maenhoudt, DVM, DACT, DECAR*

Is there a future for surgical contraception in the dog
*Alain Fontbonne, DVM, PhD, DECAR*

Small animal neonatology I
*sponsored by Purina*
*Robyn Wilborn, DVM, DACT*

Small animal neonatology II
*sponsored by Purina*
*Robyn Wilborn, DVM, DACT*

**Production Animal Track sponsored by Lane Manufacturing, Inc.**

Pregnancy loss in cattle
*Andres de la Concha, DVM, PhD*

Pregnancy loss in small ruminants
*Andres de la Concha, DVM, PhD*

The use of laboratory in pregnancy loss
*Andres de la Concha, DVM, PhD*

A review of bovine trichomoniasis
*Jeff Ondrak, DVM, MS*

Diagnosis in bovine trichomoniasis
*Jeff Ondrak, DVM, MS*

Management and control of bovine trichomoniasis
*Jeff Ondrak, DVM, MS*

Pharmacokinetic of antibiotics on plasma and semen in beef bulls
*Juan Romano, DVM, MS, PhD*

**Equine Track sponsored by Rood & Riddle Equine Hospital**

Breeding the aged mare: Which management plans are best and what are the downfalls
*David Scofield, DVM, MS, DACT*
Management and considerations of the post-partum mare and foal
*Justin McNaughten, BVMS, DACT*

Prebreeding season/prepurchase examination of the stallion: U/S testes, semen evaluation and considerations
*sponsored by the Michelle LeBlanc Equine Memorial Lectures*
*Charles Love, DVM, PhD*

Extending cooled semen: How and what?
*David Scofield, DVM, MS, DACT*

Reinforced breeding: What and How?
*David Scofield, DVM, MS, DACT*

Use of progestins in the mare
*Carleigh Fedorka, PhD*

Reproductive surgeries: Why are they necessary and which ones are best for the specific problem
*Justin McNaughten, BVMS, DACT*

Acupuncture and Chinese herbal medicine in equine reproduction
*Kristina Lu, VMD, DACT*

To learn more about transportation, places to dine, upcoming events, and more, please click the Visit Omaha link below.
**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. We are limiting the number of items to 25 again this year as it worked out well last year! Here are some suggestions for items:

- 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 attached form along with pictures of the item(s) by June 15th, 2021 to: jgfloydjr@gmail.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 2022!

No on-site donations can be accepted this year.

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

We look forward to seeing you in Omaha!!

[Click here for the Silent Auction Donation Form.](#)

---

**Awards Dinner and Story Night**

This year’s live auction will be held in conjunction with the Veterinary Story Night. Captivating stories will be paired with unique auction items. This year’s event will feature stories by Dr. Isaac Bott, Dr. Kara Kolster, Dr. Andrew Lovelady, Dr. Cliff Shipley, and Mr. Jody Wade.

The 2021 Nandi Scholars will also be announced during the Awards Dinner.

Purchase your ticket at: therio.org.

Sealed bids for live and silent auction items 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, July 21 or during the Exhibit Hall Opening Reception, Thursday, July 22, 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.
Board of Directors

Officers:
Dr. Dirk Vanderwall
President
(Term expires July 2021)
Utah State University
4815 Old Main Hill
Logan, UT 84322
Phone: 435-797-9438
Fax: 435-797-2766
Email: dirk.vanderwall@usu.edu

Dr. John Dascanio
President-Elect
(Term expires July 2021)
Texas Tech University SVM
6603 Glenwood Dr.
Amarillo, TX 79119
Phone: 540-505-4702
Email: dascanioj@gmail.com

Dr. Sherrie Clark-Deener
Vice President
(Term expires July 2021)
Virginia-Maryland Regional CVM
Duckpond Drive-Phase II
Blacksburg, VA 24061
Phone: 540-231-9041
Email: sherrie@vt.edu

Dr. Kara Kolster
Secretary
(Term expires July 2022)
Springfield Veterinary Center
4416 Springfield Rd.
Glen Allen, VA 23060
Phone: 804-270-7274
Email: karakolster@gmail.com

Dr. Cheryl Lopate
Treasurer
(Term expires July 2023)
Reproductive Revolutions
18858 Case Road NE
Aurora, OR 97002
Phone: 503-982-5701
Email: lopatec1@gmail.com

Dr. Richard Hopper
Immediate Past President
(Term expires July 2021)
Auburn University SVM
1500 Wire Road
Auburn, AL 36832
Phone: 334-844-4490
Email: rmh0067@auburn.edu

Dr. Morgan Agnew
Director
(Term expires July 2023)
Agnew Veterinary Reproductive Services
7401 Holstein Avenue
Philadelphia, PA 19153
Phone: 215-724-5550
Email: agnew.morgan@gmail.com

Dr. Charles Estill
Director
(Term expires July 2021)
Oregon State University CVM
158 Magruder Hall
Corvallis, OR 97333
Phone: 541-737-7667
Email: charles.estill@oregonstate.edu

Dr. Maria Ferrer
Director
(Term expires July 2022)
University of Georgia CVM
2200 College Station Dr.
Athens, GA 30605
Phone: 706-542-3223
Email: msferrer@uga.edu

Committees

Exam Committee:
Dr. Julie Cecere (Chair), Dr. Brian Whitlock (Past Chair), Dr. Kara Kolster (ACT Secretary), Dr. Soon Hon Cheong, Dr. Joann Randall, Dr. Jacobo Rodriguez, Dr. Ahmed Tibary

Scientific Information/ Abstract Committee:
Dr. Julie Gard Schnuelle (Past Chair), Dr. Candace Lyman (Chair), Dr. Julie Baldrighi, Dr. Orsolya Balogh, Dr. Misty Edmondson, Dr. Jennifer Roberts

Appeals Committee:
Dr. Kara Kolster, Dr. Jennifer Koziol, Dr. Charles Love
Dr. Juan Romano

Nominating Committee:
Dr. Dirk Vanderwall (Chair), Dr. Sherrie Clark-Deener, Dr. Mark Knobbe, Dr. Charles Scoggins

Awards Nominating Committee (2021):
Dr. John Dascanio (Chair), Dr. Dinesh Dadarwal, Dr. Robyn Ellerbrock, Dr. Allan Gunn, Dr. Milan Hess, Dr. Audrey Kelleman, Dr. Stuart Meyers

Awards Nominating Committee (2022):
Dr. Sherrie Clark-Deener (Chair), Dr. Jill Colloston, Dr. Allan Gunn, Dr. Sara Lyle, Dr. Stuart Meyers, Dr. Mary Beth Stanton, Dr. Robyn Wilborn

Training/Credentialing Committee:
Dr. Richard Hopper (past ACT president), Dr. Todd Anderson (Past Chair), Dr. Chance Armstrong (2020 Chair), Dr. Lynda Miller, Dr. Carol Margolis, Dr. Rochelle Jensen, Dr. Juan Samper

Maintenance of Certification Committee:
Dr. Lauren Pasch (Chair), Dr. Jessica Rush, Dr. Michela Ciccarelli, Dr. Chris Winslow, Dr. Matt Dredge, Dr. Jeanine Woods

Committee to Define Theriogenology Sub-competencies for Graduating Veterinary Students:
Dr. Reed Holyoak, Dr. Todd Anderson, Dr. John Dascanio, Dr. Natalie Fraser, Dr. Hilarie French, Dr. Kara Kolster, Dr. Jack Smith