



American Embryo Transfer Association

**2019 Joint Convention  
Tentative Registration Brochure**

**October 24–26, 2019  
Colorado Springs, Colorado**





**American Embryo Transfer Association**

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### **2019 Convention/Program Committee**

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### **Canadian Embryo Transfer Association (CETA/ACTE)**

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# Schedule of Events

Wednesday, October 23		
7:30 am–5:00 pm	AETA Board of Directors Meeting	
7:30 am–5:00 pm	AETA Certification Committee Meeting	
7:30 am–11:00 am	CETA/ACTE Certification Committee Meeting	
11:00 am–5:00 pm	CETA/ACTE Board of Directors Meeting	
1:00 pm–5:00 pm	CETA/ACTE Certification Exam <i>(for initial certification)</i>	
Thursday, October 24		
7:00 am–2:00 pm	Golf Tournament at The Country Club of Colorado <i>(additional registration required)</i> <b>Cosponsored by Partner Animal Health and Reproduction Resources</b>	Meet at course at 6:15 am
8:00 am–12:00 pm	AETA Certification Committee Meeting	
8:00 am–12:00 pm	CETA/ACTE Certification Exam Review <i>(for applicants who wrote the exam)</i>	
9:00 am–12:00 pm	AETA Certification Exam <i>(for initial certification)</i>	
11:00 am–5:00 pm	Registration Open	
12:00 pm–5:00 pm	Exhibit Setup	
2:00 pm–5:00 pm	<b>Preconference Seminar I: ET 101</b> <i>(additional registration required)</i> Presented by Dr. Randall Hinshaw and Dr. Greg Schueller	
2:00 pm–5:00 pm	<b>Preconference Seminar II: Advanced ET</b> <i>(additional registration required)</i> Evaluation of Semen with CASA, Flow Cytometry, Dr. James Graham Cryopreservation without Freezing Machines, Dr. George Seidel Evaluation of IVF and Conventional Embryos, Dr. Jennifer Barfield	
6:00 pm–9:00 pm	Preconference Social in the Cheyenne Courtyard at Cheyenne Mountain Resort <i>(additional registration required)</i> <b>Sponsored by Vétoquinol</b>	Join us in the Cheyenne Courtyard at 6:00 pm

*Continued*

Friday, October 25		
6:45 am–5:00 pm	Registration Open	
6:45 am–5:00 pm	Exhibits Open	
6:45 am–8:00 am	AETA Past Presidents' Breakfast	
6:45 am–7:45 am	Breakfast <b>Sponsored by Professional Embryo Transfer Supply Inc. (PETS)</b>	
7:45 am–8:00 am	Welcome and Exhibitor Announcements	
8:00 am–9:00 am	<b>Session 1: Recipient Management</b> Presented by Dr. Alvaro Garcia Guerra	
8:45 am–3:00 pm	<b>Companion Tour: Pikes Peak Highway Tour</b> <i>(additional registration required)</i>	
9:00 am–10:00 am	<b>Session 2: Species De-Extinction</b> Presented by Dr. George Seidel	
10:00 am–10:30 am	Break and Poster Session <b>Break sponsored by Professional Embryo Transfer Supply Inc. (PETS)</b>	
10:30 am–12:00 pm	AETA Annual Business Meeting	
10:30 am–12:00 pm	CETA/ACTE Annual General Meeting	
10:30 am–12:00 pm	<b>Student/Technician Session 1:</b> Presented by Dr. John Gibbons	
12:00 pm–1:00 pm	<b>Student/Mentor Lunch</b> All students attending the convention are welcome to attend the student/mentor lunch. Students will have the opportunity to interact with current AETA and CETA/ACTE members from various practices around North America. Attendees will get food from the main lunch area and then gather in the meeting room to eat (beverages and cutlery will be in the meeting room).	
12:00 pm–1:00 pm	Lunch	
12:00 pm–1:00 pm	CETA/ACTE New Board of Directors Meeting	
12:00 pm–1:00 pm	AETA New Board of Directors Meeting	
1:00 pm–2:00 pm	<b>Session 3: Monitoring IVF Embryo Development</b> Presented by Dr. Jennifer Barfield	
2:00 pm–3:00 pm	<b>Session 4: Assisted Horse Reproduction</b> Presented by Dr. Ed Squires	
3:00 pm–3:30 pm	Break and Poster Session	
3:30 pm–4:45 pm	<b>Session 5: Small Ruminants</b> Presented by Dr. Clifford Shipley	
6:00 pm–7:00 pm	Social Hour <b>Open bar sponsored by Reproduction Resources</b>	
7:00 pm–10:00 pm	Banquet with Entertainment by Dr. Kevin Fitzgerald <b>Open bar sponsored by Reproduction Resources</b>	

## Saturday, October 26

7:00 am–3:00 pm	Exhibits Open	
7:00 am–5:00 pm	Registration Open	
7:00 am–8:00 am	Breakfast	
7:00 am–8:00 am	Christian Family Breakfast <i>(additional registration required)</i> Presented by Glenn Crumpler, Cattle for Christ	
8:00 am–10:30 am	CETA/ACTE Session	
8:00 am–10:30 am	AETA Certification Session Presented by Dr. Amber McCoig (FDA), Dr. Shanna Siegel (USDA), and Dr. Glenn Engelland (AETA Certification Committee)	
8:45 am–3:00 pm	<b>Companion Tour: Garden of the Gods Tour</b> <i>(additional registration required)</i>	
10:30 am–11:00 am	Break and Poster Session	
11:00 am–11:30 am	<b>Session 6: The Influence of Embryo and Recipient Selection on IVF Embryo Pregnancy Outcome</b> Presented by Dr. Daniela Demetrio	
11:30 am–12:00 pm	<b>Session 7: Practitioner Forum</b> Presented by Dr. William Croushore, Dr. Louis Picard, and Dr. Byron Williams	
12:00 pm–1:15 pm	Lunch	
12:00 pm–1:15 pm	Joint Convention Committee Meeting	
1:15 pm–2:15 pm	<b>Session 8: Genomic Recipient Management</b> Presented by Dr. Richard Wallace	
1:15 pm–2:15 pm	<b>Student/Technician Session 2:</b> Presented by Dr. John Gibbons	
2:15 pm–3:15 pm	<b>Session 9: Pregnancy Loss</b> Presented by Dr. Lee Jones	
3:15 pm–3:30 pm	Break	
3:30 pm–4:30 pm	<b>Session 10: Veterinarian and Client Mental Health</b> Presented by Dr. Josie Rudolphi	
4:30 pm–5:30 pm	<b>Session 11: Embryo Buoyancy and Quality</b> Presented by Dr. Cara Wells	
5:30 pm–5:45 pm	Closing Remarks	

# Continuing Education

**AETA Members:** *Please check back for more information!*



**CETA/ACTE Members:** *Please check back for more information!*





# Hotel Information

## Accommodations

The 2019 AETA and CETA/ACTE Joint Annual Convention will be held at the Cheyenne Mountain Resort in Colorado Springs, Colorado.

The convention rate is \$159.00/night (singles/doubles).

These rates apply to all reservations made through **Monday, September 30, 2019**. After this date, reservations will only be accepted upon availability. The convention rate will not apply for reservations made after Monday, September 30, 2019. Please refer to the AETA and CETA/ACTE room block if booking by phone.



## Hotel Address and Airport Transportation

Cheyenne Mountain Resort  
3225 Broadmoor Valley Rd.  
Colorado Springs, Colorado 80906

Book your reservation online [here](#).

Book your reservation by calling **1-800-588-0250**.

All room reservations must be made by **Monday, September 30, 2019**.

Cheyenne Mountain Resort offers airport transfer from the Colorado Springs Airport to the hotel for \$20 each way. You can make your arrival shuttle reservation when you book your hotel room. If you make your hotel reservation online, you must call the hotel (1-800-588-0250) to reserve an arrival airport shuttle. To arrange an airport transfer for your return flight, you can call the front desk an hour before you are ready to depart.

# Preconference Ticketed Events

## Annual AETA and CETA/ACTE Golf Tournament



The 2019 golf tournament will take place on Thursday, October 24, at The Country Club of Colorado located at the Cheyenne Mountain Resort.

Surrounded by the jagged peaks of the Rocky Mountains, this Pete Dye–designed course was created to challenge golfers of all skill levels. Grab your clubs and rise to the occasion—Colorado’s leading golf experience awaits.

Nearly 7,000 yards of immaculate greens, angled doglegs, and sprawling sand traps characterize this championship course.



## Preconference Social in the Cheyenne Courtyard at the Cheyenne Mountain Resort

Join us for a relaxing evening at the Cheyenne Mountain Resort. Take this time to socialize, catch up with colleagues, and spend some quality time with your family surrounded by the natural beauty of the Rocky Mountains.

With dinner provided and your accommodations just steps away, the 2019 AETA and CETA/ACTE Joint Annual Convention preconference social is the best way to unwind before the convention begins.



The 2019 preconference social will take place the evening of Thursday, October 24. Entertainment will be provided by Kaleigh Glanton, season 6 contestant on The Voice.



## Companion Tours

### **Pikes Peak Highway Tour Friday, October 25, 8:45 am–3:00 pm**

The purple mountain majesties surrounding Colorado Springs are stunning to observe, with Pikes Peak—America’s Mountain—as the shining jewel in the center of their panoramic crown. If you’ve been searching for a way to tour the Pikes Peak Highway without your eyes glued to the road and your knuckles gripping the steering wheel, we have just the ticket! This guided tour comes complete with a guide, the opportunity to stroll the summit, and lunch.



### **Garden of the Gods Tour Saturday, October 26, 8:45 am–3:00 pm**

Located at the base of Pikes Peak, this National Natural Landmark and popular park features magnificent geological formations, rock climbing, nature trails, and the Garden of the Gods Visitor and Nature Center. On this tour, you will stop in the most popular area of Garden of the Gods for easy strolls and the chance to take in the stunning views around you. Once back on the bus, the driving tour will continue and take you to the Trading Post, where you will enjoy the chance to go shopping and have a leisurely lunch.



## Convention Speakers

### Dr. Jennifer Barfield

Dr. Jennifer Barfield completed a bachelor's degree in animal science from North Carolina State University in 2000. She then completed a PhD in conservation biology at the University of New Orleans, where she studied potassium channels on sperm as potential targets for a non-hormonal male contraceptive. This work was completed in partnership with the University of Muenster, Germany, in the university's human infertility clinic. Following her PhD, Barfield completed a postdoc at Colorado State University under an NIH training grant in mammalian reproduction. She then spent six months in the USDA's National Animal Germplasm Program, followed by two months at the New Bolton Center at the University of Pennsylvania before returning to Colorado State University as a faculty member in 2011. She is currently an assistant professor in the Department of Biomedical Sciences, where her research focuses on assisted reproduction, primarily in bison and cattle. She also facilitated the establishment of and manages the Laramie Foothills Bison Conservation Herd in northern Colorado. Last, she cofounded a professional master's program in assisted reproductive technologies, which began in August 2013.

### Dr. William Croushore

Dr. William (Bill) Croushore graduated in 1997 from veterinary school at the Virginia–Maryland Regional College of Veterinary Medicine (Virginia Tech). He graduated from Duquesne University School of Pharmacy in 1992, and practiced pharmacy until he was accepted into veterinary school. Dr. Croushore's professional interests include embryo transfer, pushing the limits of on-farm oocyte collection (cow eggs), herd health management, and bovine surgery. He has been certified by the AETA to export bovine embryos internationally since 2012. Dr. Croushore is a member of the American Veterinary Medical Association, Pennsylvania Veterinary Medical Association, American Association of Bovine Practitioners, Society for Theriogenology, AETA, and the International Embryo Technology Society. He is a member of the board of directors for the AETA and serves as the association's secretary-treasurer in 2019. In addition, Dr. Croushore is the treasurer for the Somerset County Holstein Association and is a member of the Berlin-Brothersvalley School District Ag Advisory Committee. Dr. Croushore writes for the *Somerset Daily American*, *Pinzgauer Journal*, and *Keystone Cattleman*. His book, *Oops,...And Other Words You Don't Like to Hear Your Surgeon Say*, was published in 2018. He also enjoys time with his family, hunting, and fishing. Dr. Croushore and his wife, Sheila, have two children, Nolan and Bena. He attends St. Peter's Roman Catholic Church, where he teaches eighth-grade CCD class.

### Dr. Daniela Demetrio

As the RuAnn Genetics Bovine Embryo Transfer Program director, Daniela Demetrio, DVM, MS, is responsible for the production of approximately 10,000 Holstein and Jersey *in vivo* and *in vitro* embryos per year—4,000 for local dairy farmers and 6,000 for in-house use and to be exported worldwide. She has been an AETA-certified veterinarian since 2012 and the chair of the Stats Committee since 2016. Demetrio received her DVM degree in 1999, and her master of science degree (animal reproduction) in 2006 from the Sao Paulo State University, FMVZ-UNESP, Brazil. Her passion for bovine embryo production started in 2000 when she learned to flush cows and transfer embryos while working under the tutelage of Dr. Jose Renato Chiari, one of the first veterinarians who started to apply embryo transfer commercially in Brazil. She joined his embryo transfer practice, SAMVET Embrioes, in 2001. Her first exposure to *in vitro* embryo production was in 2002 during a four-month training course at the National Livestock Breeding Center in Fukushima, Japan. In 2003 IVF became a part of her practice. Demetrio received the award for Best Research Study in Applied Science from the Brazilian Embryo Transfer Association (SBTE) in 2006.

for her work comparing AI and ET in lactating Holstein cows. In 2008 she moved to Riverdale, California, with her husband to run the embryo transfer program and set up an IVF laboratory for RuAnn and Maddox Dairies, where she is currently.

### **Dr. Alvaro Garcia Guerra**

Bio to come

### **Dr. John Gibbons**

Dr. John Gibbons has been involved in bovine embryo transfer in research and commercial settings for over 25 years. He received his PhD in endocrinology and reproductive physiology in 1998 from the University of Wisconsin–Madison. For his BS and MS, he studied animal science at Texas A&M University and dairy science at Virginia Polytechnic Institute and State University, respectively. In academia he has developed novel ovarian hyperstimulation protocols, explored the use of exogenous FSH to enhance ultrasound-guided follicular aspiration and ova recovery procedures, worked with multiple species, and trained multiple MS and PhD students, and he has over 100 publications and presentations. Commercially, Dr. Gibbons' roots trace back to Granada Biosciences, and he has been involved in a variety of embryo technologies. He was a leader of the nuclear transfer cloning team that produced the world's first cloned calf from a carcass. Currently, Dr. Gibbons has a split appointment between the College of Osteopathic Medicine and the College of Veterinary Medicine at Lincoln Memorial University in Harrogate, Tennessee.

### **Dr. Randall Hinshaw**

Dr. Randall Hinshaw received his DVM in 1982 from the University of Georgia. Upon graduation, he joined Ashby Herd Health Services, which is a bovine exclusive practice in the Shenandoah Valley of Virginia. His main duties were clinical medicine and surgery as well as dairy production management medicine. The embryo transfer practice began in 1983 with the collection of his first donor. The ET business continued to grow, and in 1995 he made the decision to focus full time on embryo transfer and reproductive ultrasound by creating Ashby Embryos, now Ashby Genetics. Hinshaw has been involved with training veterinarians nationally in embryo transfer as the coordinator of the AABP Edwin Robertson Beginning Embryo Transfer Seminar. He has served as president of the Virginia Academy of Food Animal Practitioners, as a member of the board of the AETA, and as president of the AETA. His professional memberships include the AABP, AETA, IETS, SFT, AVMA, Virginia Academy of Food Animal Practice, and VVMA. Hinshaw received the AETA President's Award in 2005, the AABP Practitioner of the Year Award in 2006, and the Paul F. Landis Virginia Veterinarian of the Year Award in 2011 from the VVMA. Hinshaw married his wife, Linda, in 1982, and they have 3 married daughters and 11 grandchildren. He enjoys spending time with his wife, daughters and their spouses, and his grandchildren. When he has free time, he likes to fish and enjoy the outdoors.

### **Dr. Lee Jones**

Dr. Lee Jones is an associate professor of beef cattle production medicine in the Department of Population Health, University of Georgia College of Veterinary Medicine. His office is in the Tifton Veterinary Diagnostic and Investigational Laboratory, where he also serves as a field services veterinarian. Dr. Jones received his DVM from Colorado State University in 1998 and his MS in animal science from UGA in 1987. He was certified with AETA in 2000. He is the extension veterinarian for Georgia, serves on the Georgia Beef Quality Advisory Board, is co-chair of the Georgia Cattlemen's Cattle Health and Well-being Committee, and currently serves as the American Association of Bovine Practitioners (AABP) Dis-

trict 3 Director and as vice chair of the AABP Membership Committee. He was an associate veterinarian with Medicine Valley Veterinary Hospital for 2 years and then practice owner of Frontier Genetics International in Curtis, Nebraska, for 10 years, before returning to Georgia in 2010 in his current position. His areas of interest include advanced reproductive technologies in cattle, beef herd health and reproductive efficiency, and beef stocker calf health.

### **Dr. Amber McCoig**

Bio to come

### **Dr. Louis Picard**

Bio to come

### **Dr. Josie Rudolphi**

Dr. Josie Rudolphi is an assistant professor of agricultural safety and health at the University of Illinois Urbana-Champaign. Rudolphi has worked to develop a research program focused on farmer and rancher mental health and resiliency among agricultural communities. She has secured multiple grants to examine the prevalence of depression and anxiety among subpopulations of agricultural workers. Rudolphi is very interested in exploring the effect of stress and associated health outcomes on farm families, specifically farm children. In addition to research, Rudolphi has worked to raise awareness of the mental health crisis plaguing the dairy industry in Wisconsin and consulted with Senator Tammy Baldwin's (D-WI) staff in reference to the Farmers First Act (S.2712). Previously, Rudolphi spent two years as an associate research scientist at the National Farm Medicine Center in Marshfield, Wisconsin. Rudolphi graduated from the University of Iowa's College of Public Health with a PhD in occupational and environmental health with an emphasis in agricultural safety and health.

### **Dr. Greg Schueller**

Dr. Greg Schueller received his DVM from the University of Wisconsin in 1991. Upon graduation, he joined a mixed animal practice in southwest Wisconsin where he focused on dairy reproduction and herd health from 1991 to 2009. He added embryo transfer services to the practice in 1998 and joined the AETA at that time. In 2006, he became AETA certified and continued to grow the ET side of the practice until he joined Sunshine Genetics, an embryo transfer exclusive practice, in 2009. At Sunshine Genetics he became trained in ovum pick-up and has enjoyed seeing the growth of ET and IVF services offered. Dr. Schueller is a member of the AETA, AABP, WVMA, and AVMA.

### **Dr. George Seidel**

Dr. George Seidel, a University Distinguished Professor, began his journey at Colorado State University in 1971. Seidel grew up on a dairy farm in Pennsylvania and attended The Pennsylvania State University, where he majored in dairy science. He then continued his education at Cornell University, receiving his master's in physiology and biochemistry and his PhD in physical biology, with a postdoctoral research fellowship at Harvard University. He was offered a position as an assistant professor in the College of Veterinary Medicine and Biomedical Sciences at Colorado State University while at Harvard. Seidel and his wife were thrilled to move to Fort Collins. He attributes much of his success to his wife.

### **Dr. Shanna Siegel**

Bio to come

## **Dr. Ed Squires**

Dr. Edward Squires is adjunct professor in the Department of Veterinary Science, past director of the UK Ag Equine program at the University of Kentucky, and director of the Gluck Foundation. Before moving to Lexington, Squires was a professor in the Department of Biomedical Sciences at Colorado State University (CSU) for 33 years. He has been editor of the *Journal of Equine Veterinary Science* for 11 years. Squires was a pioneer in developing the techniques of embryo collection and embryo transfer. Subsequently, techniques were developed for storage of equine embryos for 24 h at 5°C. This technology is now used to ship hundreds of embryos nationally each year. Other areas of research include reproductive endocrinology of nonpregnant and pregnant mares, hormonal regulation of the estrous cycle, and preservation of stallion semen. While at CSU, he developed a team that produced the first foal from sperm injection in the United States and the first foal from a frozen embryo and frozen oocyte. He has published over 330 articles in refereed journals and 20 book chapters; he is one of the editors of the very popular *Equine Reproduction* (2nd ed.). He is co-author, with P. M. McCue, of *Equine Embryo Transfer* (2015). He has served as a paid consultant for many of the major pharmaceutical companies, and has lectured extensively nationally and internationally to veterinary and scientific groups and horse breeders in nearly 30 foreign countries. Squires has received numerous awards, including Distinguished Alumni Award from the College of Agriculture West Virginia University, George Stubb Award, American Association of Equine Practitioners, and past president of the Equine Nutrition Society and International Symposium on Equine Reproduction, and has been inducted into the Equine Research Hall of Fame. He currently resides in Fort Collins, Colorado, and serves as a consultant for several companies.

## **Dr. Richard Wallace**

A 1985 graduate of The Ohio State University, Dr. Richard L. Wallace started his own mixed-animal veterinary practice in Centerburg, Ohio, upon graduation. Desiring more work with dairy cattle, he sold his practice in 1987 and joined a three-person dairy practice in Door County, Wisconsin. After completing a master's degree in veterinary preventive medicine in 1995, he joined the faculty at the University of Illinois as the dairy extension veterinarian. Dr. Wallace taught several dairy production medicine courses and continues to be the lead instructor for two online continuing education courses (Milk Quality and Udder Health and Advanced Cattle Reproduction) that are integral to the Online Dairy Certificate Program offered by Academic Outreach at the University of Illinois. In a cooperative role with the Department of Animal Sciences, Dr. Wallace served as the faculty coordinator and dairy farm manager for the Dairy Cattle Research Unit at the University of Illinois for six years. His own research interests included dairy cattle health and well-being, milk quality and mastitis control, lameness and digital dermatitis, transition cow health and selenium status, management of calf scours, use of dairy records for herd management, and cow behavior as it affects health and productivity. Dr. Wallace is a past president of the American Association of Bovine Practitioners and the American Association of Extension Veterinarians. He has also been involved with the board of the National Mastitis Council (NMC) and served on numerous NMC committees. In July 2010, Dr. Wallace joined Zoetis as a technical service veterinarian, focusing on dairy operations. He conducts activities alongside 13 other veterinarians, covering dairy topics. Dr. Wallace covers most of Wisconsin and northern Illinois.

## **Dr. Cara Wells**

Dr. Wells graduated with a BS in animal science from Texas Tech University in 2013 and a PhD in reproductive physiology in animal science from Texas Tech in 2017. She then completed a post doc in commercialization of a biomedical device. As an undergraduate, Dr. Wells began studying new methods to determine embryo viability and diagnose embryo health. Her work led to the invention of a noninvasive



embryo selection device that measures embryo developmental potential, viability, relative cellular content, and sex through measurement of embryo buoyancy and specific gravity. After graduation, Dr. Wells began working in clinical human embryology in Austin, Texas, but returned to the livestock industry by founding Genysis Inc. to commercialize the embryo selection technology and improve the standard of animal breeding practices through novel scientific innovations.

### **Dr. Byron Williams**

Dr. Byron Williams is an embryo transfer practitioner doing business as EmQuest Embryo Transfer Service, in Plymouth, Wisconsin, since 1994. EmQuest provides in vivo ET services and transfers or freezes IVF embryos for clients, who are nearly 100% dairy farmers. EmQuest exports in vivo DT embryos to multiple countries each year.