

Welcome to the 69th Annual Texas A&M Beef Cattle Short Course



Howdy and welcome to the 69th Annual Texas A&M Beef Cattle Short Course. What a ride this past year has been for Texas ranchers! We emerged from a drought this spring and have been enduring a heat wave across most of the state this summer. Last year ranchers faced high input costs due to the drought, Ukraine war, and supply chain issues that had lingered since COVID. Fortunately, there was a rebound of the cattle market and ranchers have been embracing the near record prices since the first of the year.

How long with the current cattle market last? How quickly will we rebuild? What will the weather be this next year? What technology can I use to make my operation more efficient and reduce input costs? These are all questions that will be discussed during the 2023 short course. The Beef Cattle Short Course has a tradition of providing relevant cattle production information to ranchers year after year and 2023 is no exception.

The program has been the leading beef cattle educational event in Texas for 68 years and evolved into one of the largest in the U.S. It is coordinated by Texas A&M AgriLife Extension Beef Cattle Specialists and hosted by the Texas A&M University Department of Animal Science.

Our great state has over 130,000 beef cattle operations and all are important to the Texas A&M University System (Teaching, Texas A&M AgriLife Research and Texas A&M AgriLife Extension) and to the Texas economy. Our goal each year is to bring together the top beef cattle researchers, educators, and industry leaders to address the most current issues, as well as provide you with cutting-edge, unbiased information to use in your beef cattle operations.

Please take time to visit the exhibitors in the virtual trade show and thank the sponsors for their support. We especially thank Capital Farm Credit again this year for their continued generous sponsorship of the 69th Annual Texas A&M Beef Cattle Short Course Proceedings. Also, take some time to visit the local businesses here in the College Station community.

The Beef Cattle Short Course is one of many beef cattle educational programs that Texas A&M AgriLife Extension conducts at the local, county, and regional levels all year long. Contact your local county Extension agent's office for more information about educational programs in your area or any Extension Specialist.

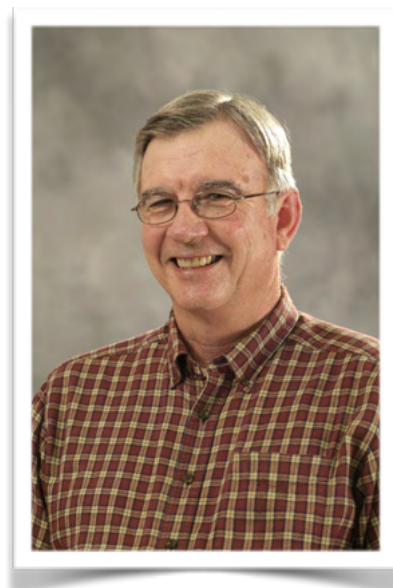
Thank you for participating in this year's program and we hope to see you again next year. You may contact us at 2471 TAMU, College Station, TX 77843-2471 or at (979) 845-6931, or visit our web site at <https://beefcattleshortcourse.com/>

Dr. Jason Cleere
Conference Coordinator
Texas A&M AgriLife Extension Beef Cattle Specialist



2023 Texas A&M Beef Cattle Short Course is dedicated to

Dr. James O. Sanders



Dr. Sanders joined the Texas A&M University Animal Science Department faculty in 1976. He was raised in South Texas, went to Texas A&M University on a Houston Livestock Show Scholarship, and graduated with a B.S. in Animal Science in 1968. From there he went to work at Michaelis Charolais Ranch near Kyle, Texas. After serving in the US Army from May 1969 to January 1971, he returned to the ranch and then went back to Texas A&M in 1972 to obtain a MS in 1974 and a PhD in 1977 in Animal Breeding under Dr. Tom Cartwright.



Dr. Sanders began teaching the undergraduate Animal Breeding course in 1976 and taught it until the spring semester of 2020. He estimates that over 10,000 undergraduate students took his course where they learned about livestock breeds, genetic defects, coat color inheritance, inbreeding and crossbreeding, and expected progeny difference. Dr. Sanders's lecture style was to write on a blackboard, seldom referring to his notes, and asking questions of his students, most of whom he knew by name. Many of his students will tell you he was known, even with his large classes, for his long answer essay question tests which he graded himself and learned about his students.

Dr. Sanders also taught undergraduate courses on livestock breeds, beef cattle production, and livestock judging and graduate courses in quantitative genetics, animal breeding, and beef cattle production. Many of his students remain lifelong friends and several became graduate assistants and earned graduate degrees under him and went on to teach, conduct research, and work for the USDA and other agencies and breed associations.

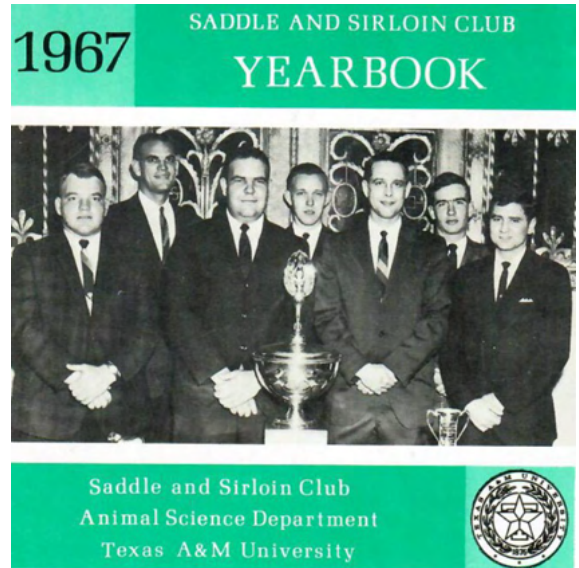
Dr. Sanders not only taught but was noted for his research in animal breeding and genetics worldwide. His initial interest in system analysis of beef cattle production was followed by comparisons of the Bos Indicus and other breeds for birth, growth, carcass, disposition, and cow productivity traits and hybrid vigor retention in composite breeds. His research included the evaluation of genetic change within these breeds and the identification of genes with major

effects on birth, growth, disposition, and cow maternal affects and the Brahman breed's genetic history.

Dr. Sanders was responsible for designing, conducting and completing the Zebu Breed Evaluation Project that evaluated five Bos Indicus breeds as F1s including the Grey and Red Brahman, the Gir, Indu-Brazil, and Nellore. This project was conducted over 20 years and evaluated the growth, carcass merit, maternal ability, and cow longevity of these breeds. It was one of the largest crossbreeding studies ever conducted in the US and dozens of students obtained their MS and PhD collecting, analyzing, and reporting results.

Dr. Sanders's passion is livestock judging; he was a member of the winning team and second high individual at the International Collegiate Meats Contest in 1966 and a member of the winning team and fourth high individual at the International Collegiate Livestock Judging Contest in 1967. Then, 20 years later in 1987, he "co-coached" the winning team at the International Livestock Judging Contest. Dr Sanders said he has judged almost all of the breeds of cattle at one time or another in Texas and over a dozen states and several countries.

Dr. Sanders has made numerous presentations at the Texas A&M Beef Cattle Short Course over the past 25 years and at association meetings and conferences all over the state and US. In addition, Dr. Sanders made presentations, judged shows and observed livestock production in South Africa, Botswana, Kenya, Panama, Brazil, Argentina, Costa Rica, St. Croix, Mexico, Belize, Colombia, Zimbabwe, Ecuador, Canada, Australia,



Guatemala, Paraguay, and Thailand.

Dr. Sanders has received numerous honors from student organizations for his service and from Texas A&M University for his teaching and research. His is an Honorary Member of the Saddle and Sirloin Club (2022), a College of Agriculture Student Council Honor Professor (2012) and has received the Texas A&M Association of Former Students Faculty Distinguished Achievement Award in Teaching

(1997) and the Former Students Distinguished Teaching Award for the College of Agriculture and Life Sciences (1989).

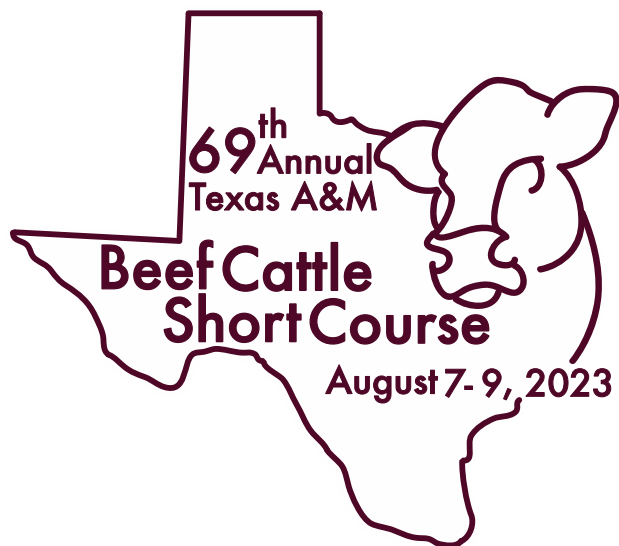
Dr. Sanders's research has been recognized by the American Society of Animal Science Rockefeller Prentice Memorial Award in Animal Breeding and Genetics Research (2009), the Texas A&M Vice Chancellor's Award for Team Research (2009), and the Alpha Gamma Rho Teacher of the Year Award (1982). Dr Sanders has been recognized for his service to the purebred beef cattle breeds of Texas and the US with the 2001 Beefmaster Breeders United Commitment to Excellence Award, 1997 Texas Brahman Breeders Association Beef Booster of the Year Award, and the 1987 American Brahman Breeders Association "Friend of the Year" Award.



Upon his retirement, Dr. Sanders and his wife Anne established a scholarship with the Texas A&M Foundation, the Anne and Dr. Sanders '68 Endowed Scholarship to support students wanting to attend Texas A&M University and pursue a degree in Animal Science. Contact the Foundation if you would like to contribute to this scholarship.

Dr. Sanders and his wife Anne have two children, Amy and Wayne and six grandchildren.

We thank Dr. James O. Sanders and his family for sharing him with us and we are honored to dedicate the 2023 Texas A&M Beef Cattle Short Course to Dr. James O. Sanders.





Planning Committee and Speakers

***Dr. Jason Cleere
Conference Coordinator***

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 Bryan Elliott

History of the Texas A&M Beef Cattle Short Course

The Texas A&M Beef Cattle Short Course has a rich tradition and historical place in the programs emanating from the Department of Animal Science at Texas A&M University. Dating back as far as 1942, Professor John K. Riggs started the first in a series of Beef Cattle Short Courses held on the campus of Texas A&M College to discuss the results of beef cattle research from the Texas Agricultural Experiment Station with Texas beef producers. This historical beginning and purpose is still the standard today for the Beef Cattle Short Course held at Texas A&M University.

Since its inception, 68 beef short courses have been held on an annual basis except during the World War II years and a few years in the 1980s when the short courses were replaced with more targeted and disciplined subject matter and audiences.



Professor Riggs chaired the short courses through the 1950s. Then, State Beef Cattle Specialist, L. A. Maddox, Jr., took over and chaired through the late 1960s. John R. Beverly, Extension Animal Reproduction Specialist, began conducting the program when Dr. O. D. Butler, then Head of the Animal Science Department, thought it would be best to have a joint specie meeting in the new Rudder Tower Complex, and called it the Animal Agriculture Conference in the early 1970s. Prior conferences were held in the Memorial Student Center Ballroom before having to move to the Ramada Inn until the Rudder Tower Complex opened.

With the name change, and the time of year for the meeting changed to January, the beef cattle producer participation began to decline. Although the beef program for the Animal Agriculture Conference was well-defined and exceptionally well-planned, the beef participation continued to decline to the point where the conference suffered and the Animal Agriculture Conference concept was abandoned.

More directed beef subject matter (e.g. meat science, reproduction, nutrition, breeds, etc.) conferences took its place during the late 1980s, but never had the appeal across the board to producers that attended the original Beef Cattle Short Courses, traditionally held in August. In 1990, Animal Science Department Head Dr. Gary C. Smith, asked Dr. Larry Boleman, Extension Beef Cattle Specialist, to take over the planning and implementation to revive the traditional Beef Cattle Short Course.

Dr. Boleman used his Extension planning experiences and approach to involve as many people from all beef-related agencies, organizations, and associations to help plan the re-make of the historically popular and traditional Beef Cattle Short Course. In the first year (1991), 350 participants attended, with 700 attendees the following



Dr. O. D. Butler and Dr. Larry L. Boleman



Dr. Larry L. Boleman and
Dr. Jason Cleere

year, and then 850 attended, breaking all previous existing records. The first two of these meetings were held in the Kleberg Center and because of the huge crowds, the meetings were moved to Rudder Theater and Auditorium.

In 1994, 1,100 beef cattle producers attended, and its popularity spread across the United States and internationally, with a high attendance of 2,000 participants in 1995 under Dr. Boleman's leadership. In 2005, Dr. Jason Cleere, Associate Professor and Extension Beef Cattle Specialist, became the Conference Coordinator and since then over 1,900 beef producers have attended annually. The 2019 attendance grew to 2,300 participants and broke the record that was set in 2018. The 2020 Covid-19 global pandemic that shut the

world down forced the 2020 Short Course to move to a virtual platform for the first time and 1,800 ranchers were online for the event.

Today, the highly respected TAM Beef Cattle Short Course is nationally and internationally recognized as the largest attended beef cattle educational program of its type in the world. It has gained the respect from all organizations, associations, Land Grant Universities, and agencies alike as the focal point for beef cattle educational information.

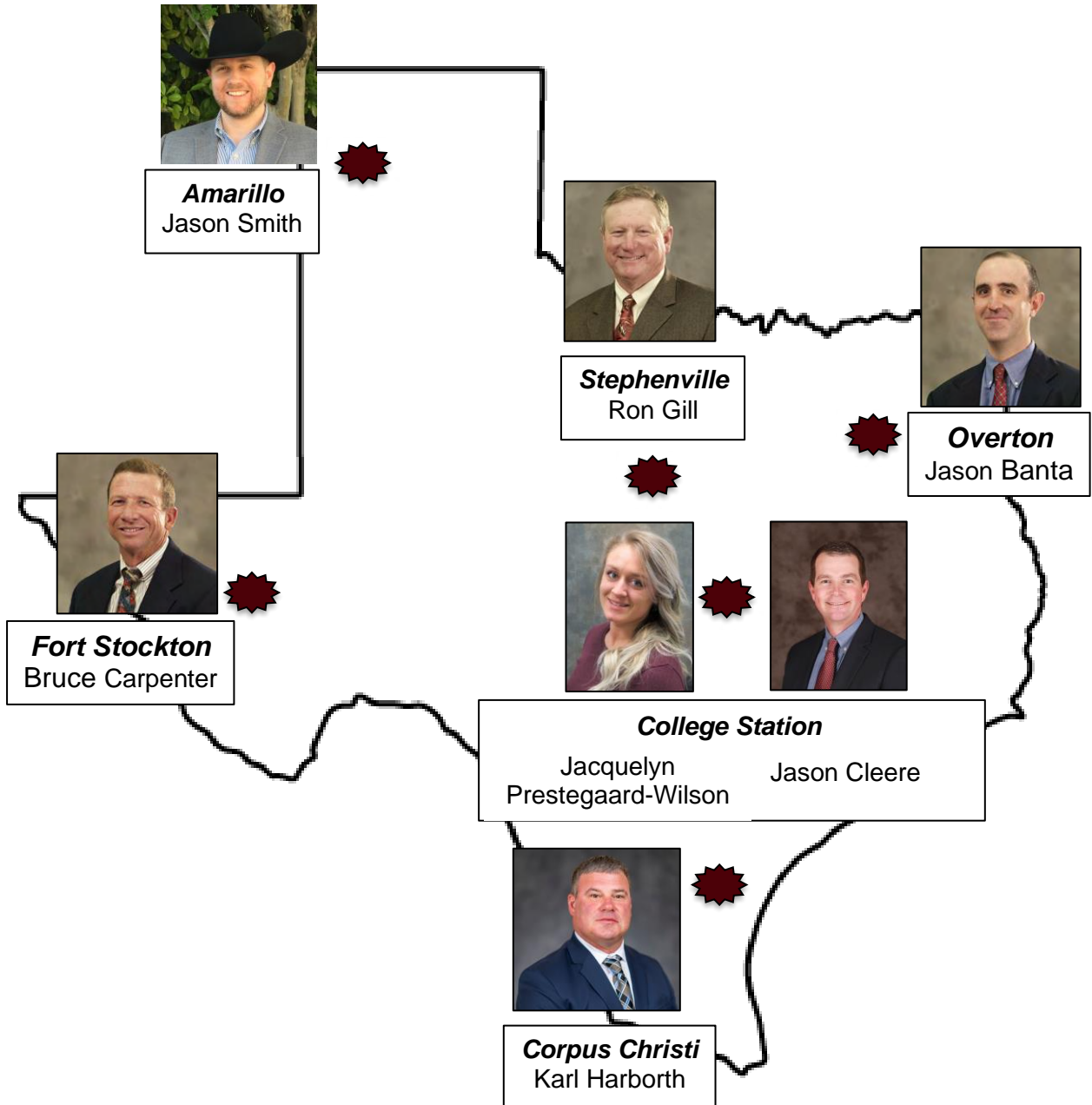


Over 130 agri-related businesses and trade show exhibitors annually attend the course and attest to the fact that it is the most highly attended activity of its type anywhere in the United States. The entire TAMU System supports this activity with the TAMU Chancellors and Presidents often attending the Prime Rib Dinner.



Cattle working at the 2022 Short Course and prime rib smoking demonstrations at the 2020 *Virtual* Short Course

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<http://beef.tamu.edu>



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TEXAS BEEF COUNCIL



2023 Texas A&M Beef Cattle Short Course Schedule of Events

Sunday, August 6

- 1:00 Onsite registration and registered participants may pick up their conference materials.
3:00 Texas Purebred Cattle Alliance Annual Meeting MSC Rm. 2404

Monday, August 7

- 6:30 a.m. Rudder Complex
6:30 Registration Desk and Trade Show Opens
6:30 Coffee and breakfast
Sponsored by Sunbelt Custom Mineral, CDP Brangus and CHR Hansen

- 8:00 General Assembly for Instructions and Orientation by Dr. Jason Cleere Rudder Theatre
Sponsored by Jorgensen Land & Cattle and JC Smith Co.

CATTLEMAN'S COLLEGE SEMINARS

CONCURRENT SESSIONS

- 8:30 Introduction to Cattle Production I (Dr. Jason Smith, Coordinator) Rudder Theatre
Sponsored by Capital Farm Credit and Ferappeace

- 8:30 They're Talking Beef, But in What Language? Jason Smith 10:00 Break
10:15 They're Talking Beef, But in What Language? (continued) Jason Smith

- 8:30 Forage Management (1 CEU – General) Dr. Vanessa Corriher-Olson, MSC Rm. 2400
Dr. Larry Redmon and Dr. Monte Rouquette, Coordinators
Sponsored by Corteva Agriscience, Branch Ranch and Lone Star Feed

- 8:30 Carbon, Cows and Climate: The Rest of the Story- Doug Tolleson
9:30 Carbon in Soils Under Grazing? – Julie Howe
10:30 Conservation Planning and Financial Assistance Programs- Frank Baca
11:00 Weed Control in Pastures and Hay Meadows – Zach Howard

- 8:30 Nutritional Management: “How Much Should I Feed My Cattle?” Rudder Forum
Dr. Jason Banta, Coordinator REPEAT ON TUESDAY
Sponsored By Cargill Animal Nutrition, Bimeda and Franks Manufacturing
This session will cover cow-calf and growing cattle nutritional requirements and how to design a protein, energy and mineral supplementation program to optimize herd performance.

- 8:30 Cattle Breeding and Genetics I-Dr. Joe Paschal MSC Rm. 2404
and Dr. Andy Herring, Coordinators
Sponsored By Southern Livestock Standard, American Brahman Breeders Association, And Cattle Stats LLC

- 8:30 Basics of Beef Cattle Record Keeping – H.C. Neel
9:30 EPDs and Their Use in Both Commercial and Seedstock Operations – Lance Bauer
10:30 Genomic Selection: A Cattlemen's Guide – A.J. Knowles

- 8:30 Pesticide Applicator Re-certification Rudder Tower, Rm. 601
(3 CEUs: 1 General, 1 IPM and 1 L&R) Dr. Mark Matocha
and Dr. Don Rennie, Coordinators
Sponsored By Wilbur Ellis, Multiman 90 And Central Life Sciences

- 8:30 Pastures, Pole Barns and Pest Control – Jonathan Cammack
 9:30 Pesticide Modes of Action – Mark Matocha
 10:30 Pesticide Laws and Regulations – Don Renchie
- 8:30 Grazing Management: A Key to Beef Sustainability-Dr. Jacquelyn Prestigaard MSC Rm. 2406
 and Dr. Jeff Goodwin, Coordinators
Sponsored By Ag Southwest And NuFarm
- 8:30 Why is Soil Health Foundational to Grazingland Sustainability? – Jeff Goodwin
 9:00 Grazing Management Tools: Measuring Sustainability on the Ranch – Hugh Aljoe
 9:30 Harnessing Data-Driven Technologies for Grazingland Sustainability – Billy Cook
 10:00 Sustainability in the Beef Industry: What Does it Entail? - Jacquelyn Prestegaard
 10:45 Sustainable Grazing Panel – Myriah Johnson, Chad Ellis, Bob McCan, Jason Sawyer
- 8:30 Beef Cattle Health Management (3.5 Vet CE) -Dr. Tom Hairgrove, Coordinator Rudder Tower, Rm. 301
Sponsored By Elanco Animal Health And Y-Tec
- 8:30 County Extension Agents and Veterinary Practitioners
 Working as a Team – John Grange and Tom Hairgrove
 9:00 Neospora: Prevalence of the Disease in Three South Texas Counties
 – Bernard Natho, Anthony Netardus, Shannon Deforest, Dwight Sexton
 and Tom Hairgrove
 10:00 Bovine Internal Parasites: Are Current Methods Working?
 - Dale Rankin, John Hutcheson and Tom Hairgrove
 11:00 Polio in Cattle – Tom Hairgrove
- 12:00 Lunch (Served from 11:30 a.m. to 1:00 p.m.)** MSC Bethancourt Ballroom
*Sponsored By Statite 50, Producers Cooperative,
 Ranch House Designs And R.A. Brown Ranch*
- Blue Bell Ice Cream – Rudder Exhibit Hall**
Sponsored By Boehringer Ingelheim
- 1:30 General Session- The Next 40 Years in the Cattle Business? Rudder Auditorium
 Moderator – Dr. Jason Cleere
*Sponsored By Graham Land And Cattle Company And
 Members Of The American Breeds Coalition: Brahman, Braford,
 Brangus, Beefmaster, Red Brangus, Santa Gertrudis And Simbrah*
- 1:30 Introduction – Jason Cleere
 1:50 2023 Market Outlook: Cattle Prices and Input Costs – David Anderson
 2:20 El Niño: Long-Range Weather Outlook – Matt Makens 3:05 A Look into the Past
 and a Glimpse Into the Future:40 Years of Progress in Beef Cattle Production
 and Marketing – Jeff Savell
 3:45 Beef Industry Panel Discussion on the Next 40 Years of Beef Cattle Production and Marketing
 Moderator – Ron Gill Panel Members – Donnell Brown, Austin Brown, Shalene McNeill and
 Rick Machen
 4:20 Trade Show Time
- 5:30 Texas Aggie Prime Rib Dinner** MSC Bethancourt Ballroom
*Sponsored By Goodstock By Nolan Ryan, Graham Land And
 Cattle Company, Texas Farm Bureau And TAMU Department
 Of Animal Science*

Tuesday, August 8th

- 7:00 a.m. Trade show opens with coffee and breakfast
Sponsored by CHR Hansen, Merck Animal Health and Westway Feeds

CATTLEMAN'S COLLEGE SEMINARS
CONCURRENT SESSIONS

- 8:30 Introduction to Cattle Production II—Dr. Jason Smith, Coordinator Rudder Theatre
Sponsored By NuFarm, Progressive Cattle And Houston Livestock Show And Rodeo
- 8:30 A Cattleman's Guide to Cow Body Condition – Jason Smith
- 9:45 Establishing and Maintaining Defined Calving and Breeding Seasons – Ryon Walker
- 11:00 Chemicals and Hormones: They're Everywhere! - Jason Smith
- 8:30 Beef Cattle Health Management II (3.5 Vet CE) Rudder Tower, Rm. 301
- Dr. Tom Hairgrove, Coordinator
Sponsored By Elanco Animal Health And Y-TEX
- 8:30 Bovine Leptospirosis – Kevin Washburn
- 9:30 Bovine Trichomoniasis – Glennon Mays
- 10:30 Bovine Viral Diarrhea – Tom Hairgrove
- 11:00 Developing and Implementing a Practical Herd Biosecurity Plan – Tom Hairgrove
- 8:30 Beef Breeding and Genetics II- Dr. Joe Paschal and MSC Rm. 2404
Dr. Andy Herring, Coordinators
Sponsored By Southern Livestock Standard And R.A. Brown Ranch
- 8:30 Tools for Breeding a More Efficient and Sustainable Cow- Troy Rowan
- 9:30 New Traits for Environmental Resilience – Jared Decker
- 10:30 Improving the Accuracy of Genomic Selection for Carcass and Meat Quality – Raluca Mateescu
- 8:30 Farm to Fork – Finishing/Marketing Cattle on the Ranch – MSC Rm. 2406
Mrs. Rachel Cutrer and Dr. Rick Machen, Coordinators
Sponsored By Brahman Country Beef And Texas Department Of Agriculture
- 8:30 Producer's First-Hand Look at Starting a Farm to Fork Business – Rachel Cutrer
- 9:15 Processor's View of Serving the Farm to Fork Industry – Dustin Dean
- 10:15 Legal Considerations for Starting a Farm to Table Business – Audra Smith
- 11:15 Opportunities Available to Texas Producers Through the Go Texan Program – Manual Martinez
- 8:30 Beef Cattle Research –Dr. Andy Herring and Dr. Karl Harborth, Coordinators MSC Rm. 2401
Sponsored By Briggs Ranches And Gulf Coast Cattleman
- 8:30 Stress, DNA Methylation and Their Implications in Cattle Production – Emilie Baker
- 9:10 Transcriptomic Comparison Between Bovine Sires of Known Fertility – Odile Polanco
- 9:30 Analysis of the Nasal Microbiota in Newly Received Feedlot Heifers According to Subsequent Incidence of Bovine Respiratory Disease – Autumn Pickett
- 9:50 Differences in Protein Supplementation Response in *Bos taurus taurus* (Angus) and *Bos taurus indicus* (Brahman) – Jodi Cox
- 10:30 How Consumer's Mouth Behavior Impacts Perceptions of Beef – Rhonda Miller
- 11:10 Curing Meat Products Without Sodium Nitrite? A Novel Approach to Meat Curing – Wes Osburn
- 11:50 Satellite-Based Decision-Support Tool to Optimize Profitability and Environmental Stewardship of Grazing Cow-Calf Operations – Jordan Adams
- 8:30 AgTech – Beef Cattle Technologies: Embracing Technology on the Rudder Tower, Rm. 601
Ranch to Improve Profitability –Mr. Egleu Mendes, Coordinator
Sponsored By 406 Bovine, Agriwebb, Vytelle, Ranchbot And Telus Agriculture

- 8:30 Optimizing Ranch Profitability by Managing Your Livestock, Grazing and Team all in One Place – Coby Buck
- 9:00 Intersection of Technology and Genetic Acceleration: Shaping a Sustainable Beef Industry – Kerryann Kocher
- 9:30 Leveraging Drones for Cattle Management: How, What and Why? – Meir Ginsburg
- 10:00 Computer Vision for Animal Care – Geoffrey Shmigelsky
- 10:30 Possibilities of Ranch Tech and the Role of Remote Monitoring – Andrew Coppin
- 11:00 Facial Recognition Software for Cattle ID – Bryan Elliott
- 8:30 Forage Management II (1 CEU – General)- Dr. Vanessa Corriher-Olson, MSC Rm. 2400
Dr. Larry Redmon and Dr. Monte Rouquette, Coordinators
Sponsored By Corteva Agriscience, Branch Ranch And Lone Star Feed
- 8:30 Utilizing Legumes to Improve Soil Fertility and Reduce Weed Pressure in Pastures – Ray Smith
- 9:30 Carbon, Cows, Climate: The Rest of the Story – Doug Tolleson
- 10:15 Grazing Management and Stocking Strategies for Pasture-Beef Systems: Experimental Confirmation vs. Testimonials & Perceptions – Monte Rouquette
- 11:00 Carbon Markets and What You Need to Know About Them - Tiffany Dowell Lashmet
- 8:30 Nutritional Management: “How Much Should I Feed My Cattle?” Rudder Forum
REPEATED FROM MONDAY- Dr. Jason Banta, Coordinator
Sponsored By Cargill Animal Nutrition, Bimeda And Franks Manufacturing
- 12:00 Lunch (Served 11:30 a.m. to 1:00 p.m.)** MSC Bethancourt Ballroom
Sponsored By Elanco Animal Health, Envu, J&J Cattle Co. And Texas Department Of Agriculture
- Blue Bell Ice Cream** Rudder Exhibit Hall
Sponsored By Boehringer Ingelheim
- 1:30 Landowner Rights: Ask An Ag Lawyer-Mrs. Tiffany Dowell Lashmet, Rudder Theatre
Coordinator
Sponsored By Oak Creek Farms, Y-Tex And Texas Farm Bureau
- 1:30 Eminent Domain – Luke Ellis
- 3:00 Property Taxes – Natalie Cavellier
- 4:15 Ag Law FAQs – Tiffany Dowell Lashmet and Kyle Weldon
- 1:30 Range Management Workshop: Common Rangeland Challenges and Solutions for Beef Cattle Producers- Dr. Barron Rector and Dr. Megan Clayton, Coordinators MSC Rm. 2406
Sponsored By EnVu, Sunbelt Custom Mineral And USDA NRCS
- 1:30 Plant ID for Grasses, Weeds (Forbs) and Woody Plants
- 2:20 Grazing Management and Land Condition Change
- 3:15 Brush Invasion and Management Approaches
- 3:45 Weed Replacement of Grass and Control Options
- 4:15 Stocking Rate Decisions and Restocking After a Drought Period
- 4:45 What Does Successful Range Management Look Like?
- 1:30 Reproductive Management -Dr. Bruce Carpenter, Coordinator MSC Rm. 2400
Sponsored By Minitube, Bovine Elite, Reprologix, Estroprotect And Elgin Breeding Service
- 1:30 Cow Costs and Replacement Value – David Anderson

- 2:15 Genetics of Reproduction – Milton Thomas
- 3:00 Replacement Heifers: Managing Expectations- Bruce Carpenter
- 3:45 Replacement Female Options – Ron Gill
- 4:30 Keeping Cows and Heifers Pregnant – Ky Pohler

- 1:30 Ranching Around the World- Dr. Alice Brandao, Coordinator MSC Rm. 2404
Sponsored By J.C. Smith Co.

Ranchers from around the world will share their ranch production practices and the challenges they face with raising and marketing beef cattle.

- 1:30 Retained Cattle Ownership Strategies- Dr. Jason Smith, Coordinator Rudder Forum
Sponsored By Angus Link And Texas And Southwestern Cattle Raisers Assn.

- 1:30 Overview of Cattle Feeding in Texas
- 2:10 Production Risk Management for Retained Ownership – Jason Smith
- 3:00 Financial Risk Management for Retained Ownership
- 4:00 Panel Discussion – Justin Gleghorn and Jim McAdams

- 1:30 Control and Management of Itchy Critters: Flies, Gnats and Ticks Rudder Tower, Rm. 601
(3 CEU Hours: 2 General and 1 IPM, 4 Vet CE)- Dr. Tom Hairgrove, Coordinator
Sponsored By Huvepharma And Farmers Business Network

- 1:30 Texas Animal Health Commission Update on Fever Tick Issues on the Border – Andy Schwartz
- 2:30 Flies Affecting Cattle and Their Control – Sonja Swiger and Tom Hairgrove
- 3:30 Bovine Anaplasmosis and Theileria orientalis: Tick Borne Diseases – Tom Hairgrove
- 4:30 Biosecurity and Management for Tick Control – Pete Teel, Samantha Hays and Tom Hairgrove

- 1:30 Purebred Cattle Marketing- Dr. Joe Paschal, Coordinator Rudder Tower, Rm. 301
Sponsored By St Genetics, Nutrition Plus And Wendt Ranches

- 1:30 Practical Crossbreeding for Beef Cattle Production- Todd Thrift
- 2:30 A Seedstock Breeder: Use of Data, DNA and Ultrasound!- Tommy Perkins
- 3:30 Genetic Selection for Horn Fly Resistant Cattle- Fernanda Rezende

Wednesday, August 9th

- 7:30 a.m. Coffee and pastries at all meeting locations.
Sponsored By Beef On Forage Beefmaster Bull Sale And Auto Easy Feeder

CATTLEMAN'S COLLEGE SEMINARS *CONCURRENT WORKSHOPS and LIVE DEMONSTRATIONS*

- 7:00 Fence Building Demonstration TAMU O.D. Butler Complex/Beef Cattle Center
Sponsored By Statite 50

Session will cover different types of fencing materials and designs. Learn how to build pipe and wood stretch sections and string multiple types of wire during this demonstration.

- 8:30 Cow Reproduction Demonstrations (4 Vet CE) TAMU O.D. Butler Complex/Beef Cattle Center
(Dr. Tom Hairgrove, Dr. Ky Pohler and Dr. Rodolfo Cardoso, Coordinators)
Sponsored By Idexx, Bovine Elite, Reprologix And Estrotec

- 8:30 Nutrition for the Beef Cow – Reinaldo Cooke and Tom Hairgrove
- 9:30 Selecting for Productive Replacements: Reproductive Tract Scoring – Rodolfo Cardoso

- 10:30 Pregnancy Testing: Pros and Cons of Existing Procedures- Ky Pohler and Tom Hairgrove
 11:30 Prevention and Control of Reproductive Diseases in Cattle- Tom Hairgrove
- 8:30 Brush Busters Demonstration TAMU Thomas G. Hildebrand Equine Complex Arena
 (3 CEUs: 3 General)-Dr. Barron Rector and
 Dr. Megan Clayton, Coordinators
*Sponsored By Corteva Agriscience, Independent
 Cattlemen's Association And East Texas Livestock*
 Integrated brush control using Brush Busters approaches, equipment and cut-stump treatments. This session will also cover how to manage and control Mesquite, Huisache, Prickly Pear, Honey Locust, Greenbriar and others.
- 8:30 Cattle Handling Demonstrations –Dr. Bruce Carpenter and TAMU Freeman Arena
 Dr. Ron Gill, Coordinators
*Sponsored By Morgan Livestock Equipment, Positive Feed
 And Auto Easy Feeder*
 Focus in this session will be on developing the handler's sense about when to apply pressure and how much pressure to apply to get cattle to work smoother and with less stress. Proper cattle trailer loading techniques will also be demonstrated.
- 8:30 Beef Cattle Business Management Workshop TAMU Thomas G. Hildebrand Equine Complex
 Bldg. 177
 Dr. David P. Anderson and Mr. Pancho Abello, Coordinators
*Sponsored By Cattlemax Software, Ag Southwest Crop And
 Ranch Insurance And Gulf Coast Cattleman*
- 8:30 Ranch Record Keeping: Where to Start, What to Keep, and Making Informed Decisions
 –Terrell and Penny Miller
- 9:30 Peer groups to boost your management – Pancho Abello
- 10:45 2023 Cattle Tax and Management Accounting Update
 - Arty Brieden, Jodi Jones, Hannah Schulz and Justin Reeves
- 8:30 Beef Carcass Value Determination Workshop Rosenthal Meat Science Center
 Dr. Davey Griffin and Dr. Dan Hale, Coordinators
*Sponsored By Texas Beef Council And
 The Eagle Land And Livestock Post*
- 8:30 Feeder Calf to Carcass Grid 9:00 Carcass Grading
 9:30 Live Cattle Evaluation and Grid Marketing
 10:00 Review Live Video of Finished Cattle
 10:30 View Carcasses from the Four Steers
 11:00 Carcass to Boxed Beef Cuts: Where is the Value?
- 8:30 Beef Cattle Chute Side Demonstration Louis Pearce Pavilion
 Dr. Jason Banta and Dr. Jason Smith, Coordinators
Sponsored By Trans Ova And Multimin
 Live animal demonstrations covering basic cowherd management practices with emphasis on Beef Quality Assurance, proper vaccination, castration, dehorning, branding, tagging and blood/tissue collection for testing.
- 12:00 Optional Picolinic Acid Training – Registration Required at the Envu Booth (1 CEU)
 -TAMU Thomas G. Hildebrand Equine Complex Bldg. 177 (Dr. Megan Clayton, Coordinator)
- 12:00 Beef Cattle Short Course 2023 – Adjourned

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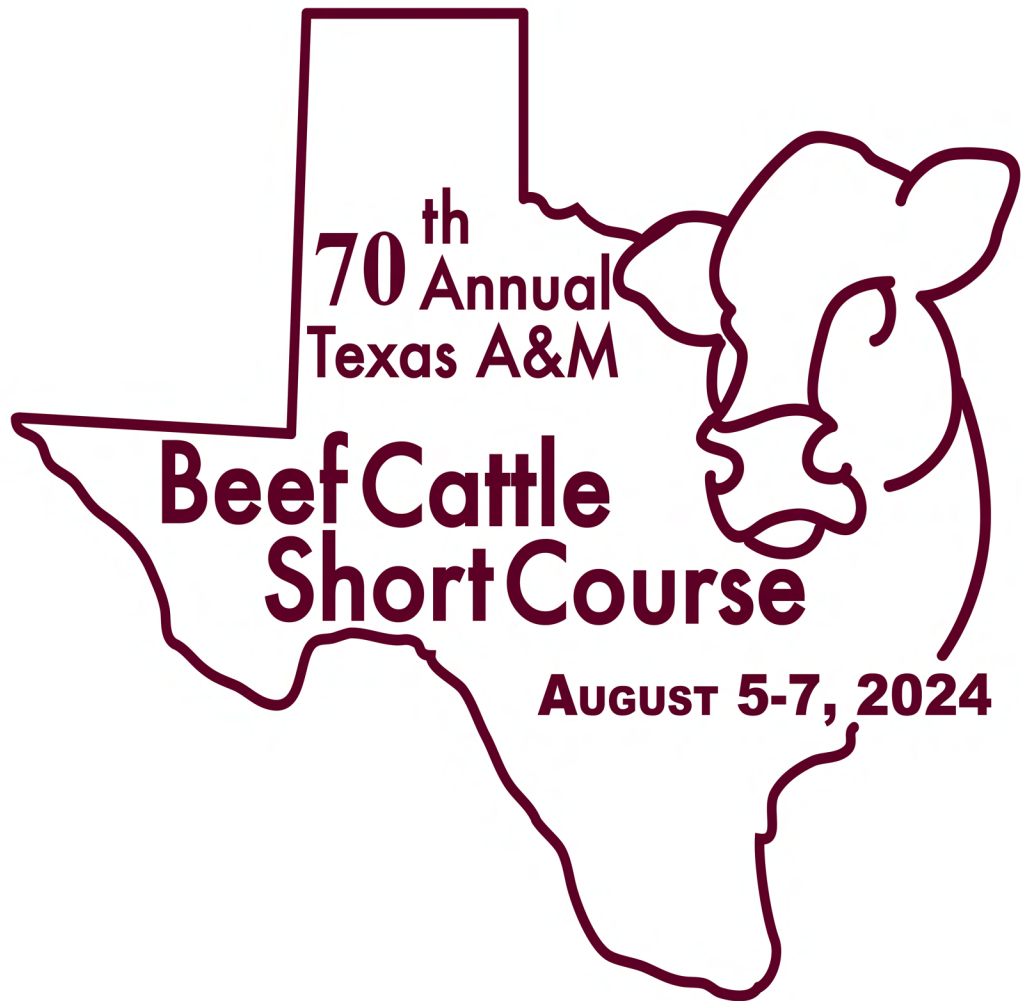


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