THIS WEEK'S FEATURES:

2018 NATIONAL CHAMPIONSHIP HORSE SHOW - 2
MSU HORSE SALE - 3
BREAKFAST ON THE FARM - 4
RUN FOR THE ROSES BANQUET - 5
2018 DEEP SOUTH STOCKER CONFERENCE - 6
BEEF IMPROVEMENT FEDERATION - 7
MSU HORSE JUDGING CAMP - 8
DR. LEMLEY RECEIVES USDA GRANT - 9
UPCOMING EVENTS - 10
# 2018 National Championship Horse Show

![IHSA Logo](image)

## 2018 National Championship Horse Show

<table>
<thead>
<tr>
<th>THURSDAY, MAY 3, 8:30 A.M.</th>
<th>FRIDAY, MAY 4, 8 A.M.</th>
<th>SATURDAY, MAY 5, 8 A.M.</th>
<th>SUNDAY, MAY 6, 8 A.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Open Equitation Over Fences</td>
<td>Collegiate Cup Intermediate Equitation Over Fences</td>
<td>Alumni Equitation Over Fences</td>
<td>AQHA High Point Rider Reining Phase Section A</td>
</tr>
<tr>
<td>Individual Intermediate Equitation Over Fences</td>
<td>USEF/Cacchione Cup Over Fences</td>
<td>Collegiate Cup Open Equitation Over Fences</td>
<td>AQHA Advanced Western Horsemanship</td>
</tr>
<tr>
<td>Individual Novice Equitation Over Fences</td>
<td>Clear Arena</td>
<td>USEF/Cacchione Cup Work-Off (at Judges Discretion)</td>
<td>AQHA Intermediate Western Horsemanship</td>
</tr>
<tr>
<td>Collegiate Cup Novice Equitation Over Fences</td>
<td>Parade of Teams</td>
<td>Clear Arena</td>
<td>AQHA High Point Rider Reining Phase Section B</td>
</tr>
<tr>
<td>Clear Arena</td>
<td>AQHA Open Reining</td>
<td>Presentation of the USEF/Cacchione Awards</td>
<td>Individual Advanced Western Horsemanship</td>
</tr>
<tr>
<td>Individual Intermediate Equitation on the Flat</td>
<td>USEF/Cacchione Cup Flat Section A</td>
<td>NRHA Individual Open Reining</td>
<td>Individual Intermediate Western Horsemanship</td>
</tr>
<tr>
<td>Individual Novice Equitation on the Flat</td>
<td>USEF/Cacchione Cup Flat Section B</td>
<td>Collegiate Cup Open Equitation on the Flat</td>
<td>Individual Beginner Western Horsemanship</td>
</tr>
<tr>
<td>Collegiate Cup Novice Equitation on the Flat</td>
<td>Individual Walk-Trot Equitation</td>
<td>Alumni Equitation on the Flat</td>
<td>AQHA Open Rail Horsemanship</td>
</tr>
<tr>
<td>Individual Walk-Trot-Canter Equitation</td>
<td>Collegiate Cup Walk-Trot Equitation</td>
<td>Presentation of Collegiate Cup Awards</td>
<td>Individual Novice Western Horsemanship</td>
</tr>
<tr>
<td>Individual Open Equitation on the Flat</td>
<td>AQHA Novice Western Horsemanship</td>
<td>Alumni Western Horsemanship</td>
<td>Presentation of AQHA High Point Rider Awards</td>
</tr>
<tr>
<td>Collegiate Cup Intermediate Equitation on the Flat</td>
<td>Collegiate Cup Walk-Trot-Canter Equitation</td>
<td>AQHA High Point Rider Rail Phase Section A</td>
<td>Presentation of AQHA Team Awards/ Versatility Award</td>
</tr>
<tr>
<td>Individual Open Western Horsemanship</td>
<td>AQHA Beginner Western Horsemanship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alumni Reining</td>
<td></td>
<td>AQHA High Point Rider Rail Phase Section B</td>
<td></td>
</tr>
</tbody>
</table>
MSU Horse Sale

MSU Horse Sale
Bid May 11-13, 2018
Viewing at Horse Unit Open House 5/5 from 9-11 am

Athleticism  Quality  Versatility

Facebook: Mississippi State University Horse Unit
Contact: Ashley Shiffler - (580) 795-4349 - aes779@msstate.edu
Quick, Convenient Bidding At AUCTION.MSUCARES.COM
Bidding begins at 8 am the 11th and closes at 8 pm the 13th
Breakfast on the Farm

Save the Date!

Breakfast on the Farm
Bearden Dairy Research Center
2128 Turkey Creek Road, Starkville, MS 39759

September 27 & 28 | 9 a.m.–Noon
Open to school groups & field trips

September 29 | 9 a.m.–Noon
Open to the public & families

Educational activities for all ages
Dairy tour
Anatomy & dissection activities
Milk a cow

Registration for a designated date & time will be required. Registration opens this fall.

For more information, contact Amanda Stone at amanda.stone@msstate.edu
Run for the Roses Banquet

Presented by the MSU Horse Judging and Equestrian Teams

May 5th, 2018 Derby Day
4:45 pm at The Mill Conference Center

Tickets $40 each
Or $450 each table

Live Viewing of the 144th Kentucky Derby
Live and Silent Auction
Dinner

Email Ashley Shiffler at aes779@msstate.edu to purchase tickets
2018 Deep South Stocker Conference

JULY 13, 2018
HALE COUNTY COLLEGE AND CAREER ACADEMY
GREENSBORO, ALABAMA

2018 DEEP SOUTH STOCKER CONFERENCE
8 A.M. TO 4 P.M.

Topics:
Forage and Supplemental Nutrition
Receiving Calf Health Management
Market and Weather Outlook
Producer Panel

Register at:
http://www.deepsouthstocker.org/registration/

Contact:
Dr. Kim Mullenix: (334) 844-1546 or
Brenda Glover: (334) 624-8710

Extension
Mississippi State Extension
UGA Extension
For 50 years, BIF has provided the framework, discussion, education and guidelines for the practical application of the science of beef cattle genetics.

Join us for the 50th Anniversary Convention as BIF looks at:
- **Positioning for the future of beef production**
- **Efficient Red Meat Production**
- **Quality**
- **Sustainability**
- **Traits Not Considered**
- **Alternative Selection Objectives**
- **Who will own our data and our industry?**
- **Where is the data and how will it be used?**

There will also be a Young Producers Forum, afternoon breakout sessions and nightly activities, including an evening at the CSU Stadium Club.

For more information, visit
[www.beefimprovement.org](http://www.beefimprovement.org)

*“At BIF, you get the chance to rub shoulders with some of the most advanced cattlemen in the industry. There is nothing about politics or policy at BIF. BIF is focused on making better cattle through genetics, efficiency, profitability and sustainability.”*

Donnell Brown, BIF President
R.A. Brown Ranch
Throckmorton, Texas
2018 MSU Horse Judging Camp

What: Horse Judging Camp instructed by Dr. Clay Cavinder and the MSU Horse Judging Team! Up-to-date industry instruction on halter and performance classes to improve the understanding of beginners and advanced judges. Additionally, instruction on reasons will be conducted.

When: June 1-3, 2018

Where: Mississippi State University, Starkville

Who: Youth (experienced or beginners) interested in horse judging

Cost: $275/person to include: all meals, dorms, and 100+ page judging manual

For program itinerary and to register, please visit: https://techoutreach.msucares.com/annual-msu-horse-judging-camp-registration

For further information contact Dr. Cavinder, Extension Horse Specialist, Mississippi State University, clay.cavinder@msstate.edu
$400,000 USDA Grant
Awarded to Dr. Caleb Lemley

USDA Competitive Standard Grant Proposal Awarded at $400,000 for 5 years (03/01/2018 – 02/28/2023), titled, *Melatonin-mediated regulation of bovine placental circadian rhythms during compromised pregnancies.*

Project Director, **Caleb Lemley**; co-Principal Investigators, **Dennis Burnett, Brian Rude**; collaborators, Heath King, Richard Hopper.

**Below is the Non-Technical Summary:**

Proper fetal nutrition through adequate blood flow to the uterus and placenta is critical to maximize offspring production potential while minimizing pregnancy wastage and calf morbidity and mortality, which are estimated to cost cattle producers over $1 billion annually. Recently our team observed daily rhythms in uterine and placental blood flow, which increased following melatonin supplementation. Our rationale for the proposed studies is that once the impact of melatonin on controlling daily rhythms in placental function are identified in the context of a compromised pregnancy (such as maternal nutrient restriction), strategies for improving and maximizing offspring health and vigor can be optimized. The hypothesis for the proposed research is that supplemental melatonin during the daytime will ameliorate inadequate placental function during maternal nutrient restriction. Our objectives are to examine daily rhythms in uterine and placental blood flow in adequately fed and nutrient restricted cattle supplemented with or without dietary melatonin. Moreover, we will examine daily rhythms in placental gene expression associated with blood flow and nutrient transfer. For our results, we expect that dietary melatonin supplementation during the daytime will counteract the maternal nutrient restriction-induced decrease in daytime uterine and placental blood flow. Moreover, placental gene expression related to daily rhythms will be increased in dietary melatonin supplemented heifers, thereby reversing the negative consequences of a compromised pregnancy brought about by nutrient restriction. These outcomes are expected to have significant positive impacts on maximizing cattle placental efficiency and directly informing the development of superior strategies to mitigate wastage of placental function during pregnancy. In addition, the new knowledge gained from these studies will change future placental research by expanding our understanding of daily placental rhythms, which have not been previously studied.
Upcoming Events

BEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD
- April 5 to 6 Southeast Cattle Handling for Women Producers
- May 27-28 MSU Animal & Dairy Sciences Alumni Weekend and
- May 1 - Beef Quality Assurance Certification, Lafayette County
  Extension Office, Oxford
- May 5 - Beef Cattle Basics, Brandon

EQUINE EVENTS - DR. CLAY CAVINDER
- June 1-3 MSU Horse Judging Camp

4-H EVENTS - DR. DEAN JOUSAN
- May 19: 4-H Livestock Judging Contest, MSU South Farm

DAIRY EVENTS - DR. AMANDA STONE
- August 25: Ice cream and a Moo-vie
- September 20-21: Calf College
- September 27-29: Breakfast on the Farm
- For more info, contact Dr. Stone at amanda.stone@msstate.edu
2018 Refereed Publications


2018 Book Chapters: