Our Mission:

Our faculty are committed to serving the citizens of this state through teaching, research and extension programs. Research and extension centers are located strategically throughout the state. Animal research facilities at the Leveck Animal Research Center, Bearden Dairy Cattle Research Center, Prairie Research Unit, Brown Loam Research Station, and the White Sands Unit give faculty opportunities to investigate the challenges facing the livestock industry.

Our Mission is to provide science-based solutions for animal agriculture through innovative and effective education, research and extension programming. Our Vision is Building the Future of Agriculture.

IN THIS ISSUE:

Congratulations to our Outstanding Students

Spring 2019 Undergraduate Research Symposium

Pancakes & Ponies

Small Ruminant Production Workshop and Agenda

Show Lamb Sale

2019 Dairy Cow Camp

2018-2019 School Year Has Been One For The Books!!

Congrats, Class of 2019

Upcoming Extension Events

2019 Refereed Publications
Congratulations to the 2019 Outstanding Students!

Courtney Heaton received the Outstanding Doctoral Student Award. She is an Equine Student under the direction of Dr. Clay Cavinder.

Maurício Xavier da Silva Oliveria received the Outstanding Master’s Student Award. He is studying Dairy Science with Dr. Amanda Stone.

Kate Parsons was selected to receive the Outstanding Senior Award.
Spring 2019 Undergraduate Research Symposium

The Department of Animal and Dairy Sciences was well represented at the Spring 2019 Undergraduate Research Symposium Tuesday, April 16th. Great work to all the undergraduates, graduate students, and mentors for participating in these research endeavors! Faculty mentors included Drs. Burnett, Cavinder, Dinh, Feugang, Larson, Lemley, Memili, Paz, and Stone. Undergraduate students included students in the Undergraduate Research Scholars Program and the MSU Extension Undergraduate Apprenticeship Program. The abstract book can be viewed at: https://www.honors.msstate.edu/research/undergraduate-research-symposium

Master’s student Dishnu Sajeev and ADS Pre-Vet undergraduate Harper Cobb

**Project Title:** Reduction of Salmonellain Pork Trimmings, Abstract #023

**Authors:** H. Cobb, D. Sajeev, H. T. Thames, S. Park, S. B. White, J. M. N. Feugang, T.T.N. Dinh

ADS Pre-Vet undergraduate Abigail Crouse received 2nd place in the biological sciences and engineering category.

**Project Title:** Effects of Exogenous Estradiol on Reproductive Characteristics of Cattle, Abstract #026

**Authors:** A. Crouse, L. Dysart, and J. Larson

ADS Pre-Vet undergraduate Hudson Thames and master’s student Dishnu Sajeev

**Project Title:** Effects of Electrostatic Spray and Natural Antioxidants on Chemical Quality of Grass-finished Beef Strip Steaks, Abstract #083

**Authors:** H. Thames, D. Sajeev, H. C. Cobb, A. T. Sukumaran, A. J. Holtcamp, and T. T. N. Dinh
Spring 2019 Undergraduate Research Symposium

ADS Pre-Vet undergraduate student Shawna Downs

**Project Title:** Safety Awareness in Mississippi 4-H Horse Programs, Abstract #169

**Authors:** S. Downs, C. Cavinder, PAS, and M. Denny

Lauren Ellison, ADS undergraduate student

**Project Title:** Effect of Maternal Feed Restriction During Gestation on Adipogenic gene Expression in Fetal Perirenal Adipose Tissue, Abstract #031

**Authors:** L. Ellison, D. S. Reid, and D. D. Burnett

Dr. Feugang and ADS undergraduate Daniel A. Fajardo

**Project Title:** Magnetic Sperm Selection for Quality Enhancement, Abstract #032

**Authors:** D. A. Fajardo, V. M. Paes, K. Bundy, and J. M. Feugang

ADS Pre-Vet undergraduate Mary Godley

**Project Title:** Investigating Placental Blood Vessel Density in Various Size Placentomes of Angus Cattle, Abstract #039

**Authors:** M. Godley, K. J. Bowers, D. D. Burnett, and C. O. Lemley
Spring 2019 Undergraduate Research Symposium

ADS Pre-Vet undergraduate Emily Haag

**Project Title:** Correlation of Bull Fertility Phenome with Sperm Cellular and Molecular Dynamics, Abstract #043

**Authors:** E. Haag, M. R. Ugur, M. Hitit, and E. Memili

Biochemistry Pre-Vet undergraduate Chelsey Hill

**Project Title:** Determining the Best Feeding Frequency for Pre-Weaned Dairy Calves, Abstract #044

**Authors:** C. Hill, C. A. Becker, and A. Stone

Biochemistry undergraduate Bibek Timalsina

**Project Title:** Comparison of Rumen Fermentation Parameters Between the Holstein and Jersey Breeds, Abstract #085

**Authors:** B. Timalsina

PhD student Courtney Heaton and ADS Pre-Vet undergraduate Emili McClure

**Project Title:** Effect of Short-chain Fructoooligosaccharides on Total Antioxidant Capacity and Thiobarbituric Acid Reactive Substances in Mature and Senior Stock-type Horses, Abstract #059

**Authors:** E. McClure, C. A Cavinder, PAS, C. P. Heaton, PAS, D. Sajeev, C. O. Lemley, and T. T. N. Dinh
Pancakes and Ponies
With Mississippi State University's Equestrian Team

SATURDAY, MAY 11th 8-11 am
Horse Unit at the Henry H. Leveck Experiment Station

ENJOY AN ALL-YOU-CAN-EAT PANCAKE BREAKFAST WITH OUR AMAZING HORSES!

Pony Rides: $15
Other activities include: Paint the Horse, a grooming station, & more

All proceeds go towards the MSU Equestrian Team as they continue to compete in the upcoming season.

To Register, e-mail Ashley Glenn at aes779@msstate.edu
SMALL RUMINANT PRODUCTION WORKSHOP

SATURDAY, May 11, 2019 (7:30 AM—4:00 PM)
FORREST COUNTY EXTENSION — FORREST COUNTY MULTIPURPOSE CENTER
952 SULLIVAN DR., HATTIESBURG, MS 39401

Demand for goat and sheep meat, milk, cheese, and hide has steadily increased in the United States during the last 10 years. These small ruminants have a high economic value because they are efficient converters of low-quality forages into quality meat, milk and other specialty markets. Dig deeper into goat and sheep production by increasing your knowledge in grazing management, animal production, nutrition, parasite ID, reproduction, and meat quality. Speakers include researchers and extension specialists from across the southeast.

Topics Include:

⇒ Forage Selection and Grazing Management
⇒ Kidding/Lambing Management
⇒ Nutrition
⇒ Farm Assistance Programs for Small Ruminants
⇒ Meat Quality
⇒ Fecal Collection and Parasite Identification
⇒ Principles of Artificial Insemination (AI)
⇒ FAMACHA Training

REGISTRATION INFORMATION:
Before APRIL 19—$30/person
After APRIL 19—$35/person
FAMACHA TRAINING KIT—$10/farm (additional to registration cost)
REGISTRATION WILL BE LIMITED TO THE FIRST 100 PARTICIPANTS AND WILL CLOSE MAY 3, 2019 at 5:00 PM CST.
Registration will include: lunch, refreshments and workshop materials
Register at http://www.pss.msstate.edu/workshops/ruminant/

Organized by Dr. Rocky Lemus (Plant & Soil Sciences), Dr. Erdogan Mermill (Animal & Dairy Sciences), and Mr. Kipp Brown (Animal & Dairy Sciences), MSU.

For more information contact Dr. Rocky Lemus at (662) 325-7718 or Ms. Kathy Johnson at (662) 325-2701.
Small Ruminant Production Workshop Agenda
SATURDAY, May 11, 2019 (7:30 AM—4:00 PM)
FORREST COUNTY MULTIPURPOSE CENTER
952 SULLIVAN DR., HATTIESBURG, MS 39401

7:30 am – 8:15 am – Registration
8:15 am – 8:30 am – Welcome and Introductions
8:30 am – 9:20 am – Forage Selection and Grazing Management (Dr. Rocky Lemus, MSU)
9:20 am – 9:50 am – Breeding and Reproduction Practices for Small Ruminants (Dr. Erdogan Memili, MSU)
9:50 am – 10:05 – Break
10:05 am – 10:55 am – Kidding/Lambing Management: Breeding to Weaning/Market (Dr. Niki Whitley, Fort Valley State Univ.)
10:55 am – 11:45 am – Nutrient Requirement of Small Ruminants (Dr. Daniel Rivera, MSU)
11:45 am – 12:00 – NRCS Programs for Small Ruminants (Mr. Paul Caves)
12:00 pm – 1:00 pm – Working Lunch
Meat Characteristics and Quality, (Dr. Derrick Burnett and Mr. Tim Armstrong, MSU)
1:00 pm – 2:00 pm – Fecal Collection and Parasite Identification (Dr. Jim Miller, LSU, Retired)
2:00 pm – 3:00 pm – Al Demonstration (Mr. Brad Jones and Mr. Alex Shook, MSU)
3:00 pm – 4:00 pm – FAMACHA Training (Mr. Kipp Brown and Mr. Shelby Bearden, MSU)
4:00 pm – 4:30 pm – Evaluation and Adjourn
Show Lamb Sale
May 18, 2019 at 11:00 at the MSU Beef Unit

Strickland
Show Lamb Genetics
Proven Champions

A Great Source
For Your
Mississippi Bred Lambs

MSU will be Selling 10-20 Show Lamb Prospects
Sired By Hostile, A Schminke Genetics Ram

H. H. Leveck Research Station
(South Farm)
60 Beef Unit Road
Mississippi State, MS 39762

Corey White (662) 803-8815
c.white@msstate.edu

William White (662) 769-3500
w.white@msstate.edu

ANIMAL & DAIRY SCIENCES
MISSISSIPPI STATE UNIVERSITY
EXTENSION DAIRY

2019 DAIRY COW CAMP

Learn Judging and Showmanship

July 22 - 23, 2019
Mississippi Horse Park
Starkville, MS

Contact: Dr. Amanda Stone
Box 9815, Mississippi State, MS 39762
(662) 325-8773
2018 - 2019 School Year Has Been One For The Books!!
2018 - 2019 School Year Has Been One For The Books!!
2018 - 2019 School Year Has Been One For The Books!!

MISSISSIPPI STATE UNIVERSITY
MISSISSIPPI STATE UNIVERSITY

Congrats,
Class of 2019!

WE ARE ALL SO PROUD OF YOU!

THE ANIMAL & DAIRY SCIENCES DEPARTMENT OF MISSISSIPPI STATE UNIVERSITY WOULD LIKE TO CONGRATULATE THE GRADUATING CLASS OF 2019. WE WISH YOU ALL THE BEST.

HAIL STATE!
UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch

May 17: Beef 101, MSU Meat Science Laboratory, Mississippi State, MS

Phone: (662) 325-7465    Email: brandi.karisch@msstate.edu
Beef Calendar: http://extension.msstate.edu/livestock/beef/beef-calendar

Dairy Extension - Dr. Amanda Stone

July 22-23: 2019 Dairy Cow Camp, MSU Horse Park, Starkville, MS

Phone: (662) 325-8773    Email: amanda.stone@msstate.edu
Website: http://extension.msstate.edu/dairy

4-H Events - Dr. Dean Jousan

May 25: State 4-H Livestock Judging Contest, MSU

Phone: (662) 325-2424
Email: dj230@msstate.edu    Website: http://extension.msstate.edu/4-h

Equine Events - Dr. Clay Cavinder

Contact Dr. Cavinder for information about programs and events at (662) 325-7566 or
Email: clay.cavinder@msstate.edu
Website: http://extension.msstate.edu/agriculture/livestock/equine/upcomingprograms
2019 Refereed Publications


