

Wildcat Canter

UNIVERSITY OF KENTUCKY AG EQUINE PROGRAMS NEWSLETTER



UK Ag Equine Programs
Sponsors Networking Event, UK
Ag Equine Alumni Shine

NOVEMBER 2018



UK Ag Equine Programs Sponsors Networking Event, UK Equine Alums Shine- PAGE 6

UK Ag Equine Programs sponsored a Career Networking and Mentorship seminar Oct. 29 at Equestricon. Panelists included Walker Hancock, of Claiborne, Jake Memolo, of Taylor Made, and Leah Alessandrone, of Bonne Chance Farm. Shout out to UK alums Jake and Leah for an awesome job talking about their paths they've taken within the Thoroughbred industry.



Microchipping-One Small Step for Your Horse, One Giant Leap for the Equine Industry- PAGE 11

Student commentary from EQM 305, Horse Industry Issues. Improve your horse's traceability, health records and chances of identification during natural disaster with one solution - microchipping. A cost-effective, permanently implanted, tiny wafer of semiconducting material that is encapsulated in glass, proving your horse is who you say he or she is.



UK Students Win at Animal Welfare Judging and Assessment Contest- PAGE 12

Congratulations, Madisen Baldwin and Melissa Cantor. Baldwin won the undergraduate individual assessment honors, and Cantor won the graduate student individual assessment honors. They were both representing the University of Kentucky at the Animal Welfare Judging and Assessment contest at Colorado State University.



Other Features

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Meet Our Fall Equine Science and Management Interns-Page 8

UPCOMING EVENTS AND IMPORTANT DEADLINES

- December 6, UK Ag Equine Programs Internship Reception and Program Showcase, UK Student Center
- December 10-14, Finals week
- December 14, ESMA Graduation Reception, Spindletop Hall

Welcome

As the days get shorter, the temperature drops and stress increases; it can be easy to get caught up in the winding down of the semester and the onset of winter. The last few weeks of the semester can be tough on students, faculty and staff. As we head into the busiest time of the year, we should take some time to focus on a little bit of self-care.

One of the easiest things you can do to keep your body in tip-top shape is to make sure you're eating nutritious foods. Eating well nourishes your body and mind and can help keep you focused and feeling good. Instead of reaching for the closest, most convenient products like fast food, take time the night before your busy days to pack a lunch that is nutritionally balanced and will have the fuel to get you through the day. If you do get caught on campus without a lunch, or you need a snack, there are healthy options available at the Ag Deli and at many of the other on-campus dining options.

Another important way you can take care of yourself is to make sure you get enough sleep. Most people need around eight hours a night, but it varies by individual. According to the American Psychosocial Association, one of the best and most common ways to make sure you're getting enough sleeps is to keep your body on a regular sleeping and waking schedule. This means going to bed and waking up similar times each day. Sometimes, when large amounts of work are headed your way, it often pushes back our bedtimes or for some college students, they pull "all-nighters." While staying up and studying might seem like the best way to get ready for a big exam or project, it can decrease productivity and leave you feeling groggy the next day. Getting a good amount of sleep and planning time to be productive during the day can help you get enough sleep and feel good on your big days.

During these busy times, I know I often push aside working out ,seeing friends or going to the barn to see the horses, saying, "I don't have time today," when I actually do. It just takes prioritization and it might just be the break in your day that you need. I like to plot out my week by putting my events into three categories: things I want to do, things I should be working on and things that I need to get done this week. I make sure to carve out time for things I should be working on and what needs to get done, but I try to do fun activities to keep morale high and give me that break. Sometimes I don't have time to ride my horse or go for a full workout, but even a 15-minute run, grabbing ice cream with a friend or grooming my horse is the break I need from academic stresses.

While the end of the semester can be hectic and stressful, it also important to take time to reflect on all we have learned, our accomplishments, our struggles and reflect on our goals. Taking time out of our busy lives to take a deep breath, connect with our friends and family and do a little self-care can help us reach the finish line.

Samantha Geller
Communications Intern, UK Ag Equine Programs





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UK Ag Equine Programs Sponsors Networking Event, UK Equine Alums Shine

UK Ag Equine Programs sponsored a Career Networking and Mentorship seminar Oct. 29 at EquestriCon. Panelists included Walker Hancock, of Claiborne, Jake Memolo, of Taylor Made, and Leah Alessandrone, of Bonne Chance Farm. Shout out to UK alums Jake and Leah for an awesome job talking about their paths they've taken within the Thoroughbred industry.





Kyle Johnson, '14
Stallion Groom, Claiborne Farm

By Samantha Geller

Where is home for you?

Massachusetts, although Kentucky has certainly become a second home since moving here for college.

How did you first become involved in the horse industry?

Growing up, Johnson worked in various facets with horses; mostly caring for and working draft horses and caring for a string of polo ponies. He also had experience with therapeutic riding horses.

What were your career goals before graduation?

Johnson's goal was, and still is, to become a general manager at a Thoroughbred farm in Central Kentucky.

Where are you currently employed?

Claiborne Farm in Paris, Kentucky.

What are your current job responsibilities?

Johnson is currently a stallion groom, working in the breeding shed and on the stallions' day-to-day care.

What led you to this position?

After graduation, Johnson started an internship at Claiborne working with mares and foals. That opportunity led to a full-time position at Claiborne during the 2015 breeding season.

What advice do you have for current equine students?

"The best advice I've gotten and can pass on is to always be hard working in whatever you are doing; everything eventually falls into place with a great work ethic," he said.



Ag Equine Programs
 College of Agriculture, Food and Environment

Meet Our Fall 2018 Equine Science and Management Interns

Name: Bailey Armour

Year in School: Senior

Hometown: Gainesville, Georgia

Name and Location of Internship: Marketing Intern - Coolmore America's Ashford Stud

Internship Supervisor: Emily Duncan

What skills thus far have you gained from your internship? Interpersonal communication, time management, decision making, leadership

Describe a moment from your internship that made you think this was the right internship for you. Every day at 2:30, I give a tour of the stallion complex to 25-30 people who would like to see our stallions. The following day, visitors are invited to write a review of how they think the tour went and what they liked or didn't like. After reading the reviews from my first week of tours and seeing people that enjoyed their experience and enjoyed it because of me makes me realize that I really get to impact the way that people experience the Thoroughbred industry.



Name: Megan Bauer

Year in School: Senior

Hometown: Northfield, Ohio

Name and Location of Internship: McConathy Farm Rescue in Lexington, Kentucky

Internship Supervisor: Lisa McConathy

What skills thus far have you gained from your internship? Rehoming and retraining rescues and farm budgets.

Describe a moment from your internship that made you think this was the right internship for you. I got to place a long time rescue with his forever home.



Name: Claire Burnham

Year in School: Senior

Hometown: Houston

Name and Location of Internship: Undergraduate Research Assistant with UK's Ag Biosystems Engineering

Internship Supervisor: Morgan Hayes

What skills thus far have you gained from your internship? I have gained a better understanding of how engineering relates to horse health and facility design.

Describe a moment from your internship that made you think this was the right internship for you. I enjoy nearly every moment of my internship because I love the people I work with and I love what I do. This is an interesting subject and I enjoy learning.



Name: Shannon Clancey

Year in School: Senior

Hometown: Louisville, Kentucky

Name and Location of Internship: Maxwell H. Gluck Equine Research Center Reproductive Unit at Maine Chance Farm

Internship Supervisor: Pouya Dini

What skills thus far have you gained from your internship? Practice with blood draws, administering medications and collection sample handling

Describe a moment from your internship that made you think this was the right internship for you. While performing pregnancy checks via ultrasound, we discovered a mare had three embryos and was pregnant with triplets. This is uncommon, so it was exciting to see and learn more about equine reproduction.



Meet Our Fall 2018 Equine Science and Management Interns



Name: Tatyana German

Year in School: Senior

Hometown: Centreville, Virginia

Name and Location of Internship: Champagne Run, Lexington, Kentucky

Internship Supervisor: Sarah Redmond

What skills thus far have you gained from your internship? Vaccinations, medications, checking for lameness, observing lesson instruction

Describe a moment from your internship that made you think this was the right internship for you. She told me it was mainly cross country and that has always been of huge interest to me.



Name: Alexandra Kokka

Year in School: Senior

Hometown: Fresno, California

Name and Location of Internship: Thoroughbred Aftercare Alliance, Lexington, Kentucky

Internship Supervisor: Erin Shea

What skills thus far have you gained from your internship? Thus far, I have gained skills in office administration and marketing, specifically as it relates to journalism. I have been learning a lot about how to write articles for the TAA's website and how to create social media posts that are geared towards keeping our supporters up to date and interested on the TAA's involvement in the aftercare of Off the Track Thoroughbreds. I have also gained experience in research regarding the history and racing careers of the horses who end up at one of our accredited facilities.

Describe a moment from your internship that made you think this was the right internship for you. Although most of my work with the Thoroughbred Aftercare Alliance revolves around me working in the office, the moment that made me realize I chose an internship that truly gave me a glimpse into what career satisfaction felt like was when I was at the Kentucky Horse Park helping the TAA during the Thoroughbred Makeover. I had the opportunity to meet and inform OTTB advocates about what the TAA's role is in the aftercare process and highlight the positive impact we have in the equine community. I was also able to interact with several of the amazing farms which benefit from our services and watch their horses showcase the incredible versatility of the Thoroughbred.



Name: Misty Medeiros

Year in School: Junior

Hometown: Meredith, New Hampshire

Name and Location of Internship: Equine Communications and Student Relations at University of Kentucky Ag Equine Programs

Internship Supervisor: Holly Wiemers

What skills thus far have you gained from your internship? Communication skills, entering data and searching for job and internship opportunities.

Describe a moment from your internship that made you think this was the right internship for you. I get to search for internships and jobs for equine students and I love the communication part about finding the positions and being able to make them available for the students.

Meet Our Fall 2018 Equine Science and Management Interns

Name: Sarah Mullins

Year in School: Senior

Hometown: Beckley, West Virginia

Name and Location of Internship: Genetics research, Gluck Equine Research Center, Lexington, Kentucky

Internship Supervisor: Kathryn Graves

What skills thus far have you gained from your internship? How to prepare and run genetic samples for testing. I am now learning how to read the genetic coding and data associated with the samples. I'm learning how to test for parentage.

Describe a moment from your internship that made you think this was the right internship for you. I think the moment I knew the internship was for me was when I first got to prepare a sample for testing and the first time I got to run it through our machines to collect the data.



Name: Clint Saxon

Year in School: Senior

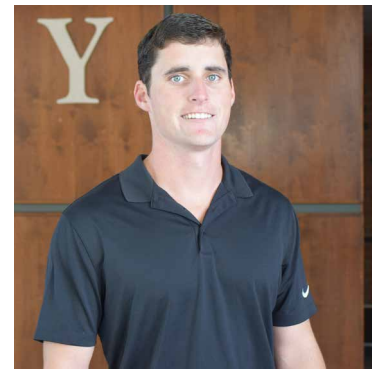
Hometown: Waynesboro, Georgia

Name and Location of Internship: Track Management at the Thoroughbred Training Center

Internship Supervisor: Jim Pendergest

What skills thus far have you gained from your internship? Gaining knowledge on maintaining the track surface.

Describe a moment from your internship that made you think this was the right internship for you. Growing up on the farm gave me passion for horses and the use of heavy machinery. I am able to get the best of both worlds with this career path.



Name: Emma Wassmann

Year in School: Senior

Hometown: College Park, Maryland

Name and Location of Internship: Summerhill Farm Lexington, Kentucky

Internship Supervisor: Jo Brown

What skills thus far have you gained from your internship? Time management, organization and communication

Describe a moment from your internship that made you think this was the right internship for you. I have been at this job for three years, but the project really makes me excited, especially when I get to see how a horse that I knew as a foal is doing in its racing career.



From our students...some of the pieces written in a provocative new course

By Holly Wiemers

An important part of the mission of our program includes undergraduate education, specifically with our Equine Science and Management undergraduate degree program. A new class that piloted this spring – taught by Camie Heleski, a faculty member and lecturer within the program – is one designed to present provocative, often controversial issues that are current to the equine industry.

In EQM 305, Equine Industry Issues, students are introduced to topics, heard from speakers, researched information and communicated about industry issues in written and oral formats. The course is designed to expose students to hot button issues in the industry and encourage them to research and formulate well-communicated opinions about those issues. One avenue made available to this course is publishing some of those stories here. Here one of the written pieces that emerged from students in this course. They are meant to be provocative and sometimes controversial.

Microchipping-One Small Step for Your Horse, One Giant Leap for the Equine Industry

By Jordan Poff

Improve your horse's traceability, health records and chances of identification during natural disaster with one solution - microchipping. A cost-effective, permanently implanted, tiny wafer of semiconducting material that is encapsulated in glass, proving your horse is who you say he or she is.

There are, according to the latest count in 2006, approximately 58.4 million horses in the world, which includes the 9.5 million horses located within the United States (Kilby, 2011). How is everyone going to keep up with so many of them? Well there is an easy solution: microchipping.

Equine microchipping is when a tiny wafer of semiconducting material, encapsulated in glass, is permanently injected into the horse's neck. A needle is used to implant the grain-sized microchip into the neck after properly sanitizing the area. The microchip is placed between the poll, at the top of the horse's head, and the withers, at the base of the horse's neck, as well as 1.5-2 inches below the base mane line and the nuchal ligament on the left side of the neck.

These microchips must be an International Organization of Standardization (ISO) chip, have 15 numbers (first three standing for the manufacturer or country code; the remaining 12 are unique to each horse) and must operate at 134.2 kHz.

The talk of microchipping horses started in the late 1980s, specifically in 1987. However, there were no equine organizations that represented the horse owning public involved in the conversation until 2002. Now, there are new restrictions and regulations for the industry involving microchipping to improve the traceability, health records, tracking down horses after natural disasters, biosecurity and leveling the field of competition within various equine sports.

This form of identification is starting to be seen in multiple countries around the world, including Great Britain, France, Ireland, South Africa, Germany, Italy and New Zealand, as well as different states within the U.S. In fact, in the United Kingdom, it is now mandatory for all owners to get their horses, ponies and donkeys microchipped. The regulations for the UK's new Central Equine Database were laid in parliament on June 25, 2018, and began being enforced starting Oct. 1, 2018. In the United States, Louisiana became the first state to require this type of identification in addition to annual Coggins testing for all horses in 1994. Europe has also required microchipping since 2009 to prevent the unwanted mixture of horse meat with beef on the market.

Microchipping not only aids veterinarians, farm managers and other animal professionals within the industry, but also provides reliability, disease surveillance, animal welfare and reduction of false documentation/misrepresentation.

Biosecurity refers to procedures intended to protect not only humans against disease or harmful biological agents, but also animals. The chance of a disease outbreak should never be taken lightly due to the potential catastrophic consequences resulting from them. Horses are naturally social creatures and due to this, there will always be a chance of an outbreak, especially in places where horses are in close proximity with each other, such as competitions, races and boarding facilities. These outbreaks can include diseases such as Herpesviral Myeloencephalopathy, Strangles, Salmonellosis and Influenza.

In fact, there was a case along the Mexico/Texas border where 10 horses in very poor condition were found being smuggled across the border. These 10 horses were all found to be positive for Equine Piroplasmiasis. But, because they were microchipped, the information allowed investigators to locate a large smuggling ring that was shipping Pura Raza Espanola horses from Spain to Mexico to Texas and ultimately to California. If a disease outbreak occurs, microchipping allows one way to confirm a horse's presence at the suspected origin location of the outbreak. This allows rapid and efficient management practices to reduce the spread of contagious diseases.

Natural disasters occur every year and each year it seems like they get worse. In a record setting 2017, two floods, seven severe storms, three tropical cyclones and one outbreak of wildfires occurred. During these natural disasters, it is highly likely that multiple horses escaped their facilities and were either displaced permanently or were returned home. The difference often was found in whether a microchip was present or not. The horses had an increased chance of actually being reunited with their owners if had a microchip to assist in their identification. In fact, Louisiana has made microchips a mandatory regulation due to Equine Infectious Anemia (EIA) outbreaks and natural disasters starting in the 1990s.

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"After hurricanes Katrina and Rita, the microchips and other permanent identification features made it possible to reconnect all but one of 500 displaced horses with their owners," said Jay Addison, a veterinarian with Equi-Vet LLC.

There are millions of horses in the world and every one of them are different. However, like most equine enthusiasts know, there can be countless bays and greys that look nearly identical. So how could one just rely on the color and markings as the top form of identification? Microchipping can provide an additional form of identification when there is uncertainty.

The Jockey Club started requiring all foals to be microchipped in 2017 after 66 percent of the 23,000 foals in the previous year were voluntarily microchipped to aid in identification and records (Larkin, 2017). Identification is not only important when someone has to grab the correct horse out of the field, but it is pertinent when talking about the breeding industry. Hundreds of mares are being bred every season and it is extremely important to be breeding the correct stallion to the correct mare. Microchipping can reduce falsely identifying a horse and aid in tracking progeny and pedigrees, which overall will improve multiple breeding programs.

The equine industry is made up of people and horses participating in a wide range of disciplines. These competitions often result in prize money being won. Even though most don't want to think about people cheating to win this money, it does happen. Due to the occurrence of duplicate registrations, owners entering horses that have competed at a higher level in a lower class, drug testing and false identification, both the United States Hunter Jumper Association (USHJA) and the United States Equine Federation (USEF) required competing horses to be microchipped starting Dec. 1, 2017. The breed exceptions to this regulation include Arabians, Morgans and Saddlebreds, unless these horses have not been registered with a breed registry.

Microchipping competition horses increases the awareness within the equine industry and allows a certain leveling of the playing field.

However, there are always two sides to every story. While microchipping horses has a lot of benefits, there are also some potential consequences as well. Even though microchipping a single horse can be fairly inexpensive, microchipping multiple horses can quickly become expensive.

In addition to cost, a microchip is physically implanted into a horse's neck, which can increase the risk of bruising, abscess formation and the possibility of the chip migrating from its original point of contact. If one of these scenarios occurs, it can result in the horse having to get the microchip surgically removed, which is an invasive surgery with potential difficulty locating the microchip. Due to the high amount of human involvement, there is also the chance of human error, such as incorrect implantation technique. Consider that only 19 percent of practicing veterinarians are familiar with the National Animal Identification System. Human error can also result in incorrect input of data in records.

Safety within microchipping is a concern for the health of the horse, but in a study, it was found that only 3.8 percent of respondents reported experiencing abscesses and 7.1 percent reported experiencing migration of the microchip (K.S. Vanderman, N.A. Dreschel et al., 2009).

The question might be how microchipping as a solution will spread through the industry in a positive way?

For this to occur, goals, objectives and basic timelines need to be addressed and created in the United States. The United Kingdom is already ahead of the game because by the year 2020, all owners have to have all horses, ponies and donkeys microchipped. To target the different areas of the U.S.'s equine industry, surveys, incentive programs and collaboration opportunities should be made available.

One of the primary target audiences should be today's equine industry youth because they represent the future and can make a change. Reaching out to them through educational programs will be highly important.

Overall, microchipping is one small step that can not only help protect horses, it can aid owners too. One small step could make all the difference. One small step can improve the future of this industry.

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UK Students Win at Animal Welfare Judging and Assessment Contest

Congratulations, Madisen Baldwin and Melissa Cantor. Baldwin won the undergraduate individual assessment honors, and Cantor won the graduate student individual assessment honors. They were both representing the University of Kentucky at the Animal Welfare Judging and Assessment contest at Colorado State University.



From left to right: Camie Heleski, Melissa Cantor, Maddie Jones, Madisen Baldwin, Joao Costa.
Missing from the photo is Laughlin Flanagan and Augusta Hosmer.

College of Agriculture, Food and Environment Newsletter

Click [here](#) to read the latest College of Agriculture, Food and Environment Newsletter and to see the UK Ag Equine Programs feature.

Bluegrass Equine Digest

Check out the November issue of the Bluegrass Equine Digest, a free, monthly electronic newsletter dedicated to providing up-to-date information on equine research from the University of Kentucky's College of Agriculture, Food and Environment in collaboration with TheHorse.com and sponsored by Zoetis.

Click [here](#) to see this month's stories.



- UK Welcomes New Miniature Horse Stallion
- New Study on Dwarfism in Miniature Horses
- Improved Horse Genome Released
- Climate and Vector-Borne Equine Diseases


UNIVERSITY OF KENTUCKY
Ag Equine Programs

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It starts with us

 College of Agriculture, Food and Environment

Undergraduate Admissions Announces New Way to Apply to UK

By Carson Hardee

Source: UKNow

There's a new way to become a Wildcat!

The Office of Undergraduate Admission recently announced that the University of Kentucky is now accepting applications through the Coalition for College Access' MyCoalition application. This website is an exciting new opportunity for students to learn about everything that UK has to offer and to start their UK journey.

"We are excited to launch the application for admission as well as promote the other college preparation tools provided through MyCoalition," Scott McDonald, UK's dean of undergraduate admission, said. "We enjoy working with prospective students and high school personnel across the Commonwealth and country to promote the value of a college education — especially at the University of Kentucky."

The coalition was founded in 2015 by college leaders who wanted to make the college application process more accessible and affordable for all students. Since its inception, the coalition has grown to include more than 140 colleges and universities across the United States.

MyCoalition is not just another way to apply to college. The site contains a myriad of free college-planning tools to help make college a reality for all students. When students log on to the website, they can upload important documents and information from high school, connect and collaborate with their mentors, and apply for schools like UK!

To learn more about MyCoalition and its services, visit www.coalitionforcollegeaccess.org. Ready to apply to UK? The early action deadline is Dec. 1. Visit www.uky.edu/admission/apply-uk to submit your application through Common, Coalition or the UK app.

UK is the University of Kentucky. At UK, we are educating more students, treating more patients with complex illnesses and conducting more research and service than at any time in our 150-year history. To read more about the UK story and how you can support continued investment in your university and the Commonwealth, click [here](#).



2019 UK Equine Showcase

8th Annual UK Equine Showcase

January 26, 9 a.m.- 2:30 p.m.

A program highlighting the university's current equine programs and findings relevant to the industry.

Insects and Horse Health: What You Need to Know

Dr. Zainulabeduddin Syed, Department of Entomology

Important Equine Diseases Carried by Insects

Dr. Rebecca Ruby, Department of Veterinary Science

Vector Born Diseases Affecting Horses and Humans

Dr. Peter Timoney, Department of Veterinary Science

Making Your Barn Horse Friendly and Insect Averse

Dr. Morgan Hayes, Department of Biosystems and Agricultural Engineering

Managing Manure and Mud

Dr. Steve Higgins, Department of Biosystems and Agricultural Engineering

Ag Water Quality Act

Tammy Brewster-Barns, Cooperative Extension

[For more information and to register.](#)

Fayette County Cooperative Extension Office | 1140 Harry Sykes Way | Lexington, KY
Contact us at equine@uky.edu or visit www.ca.uky.edu/equine



 University of
Kentucky

Ag Equine Programs
College of Agriculture, Food and Environment

SAVE THE DATE

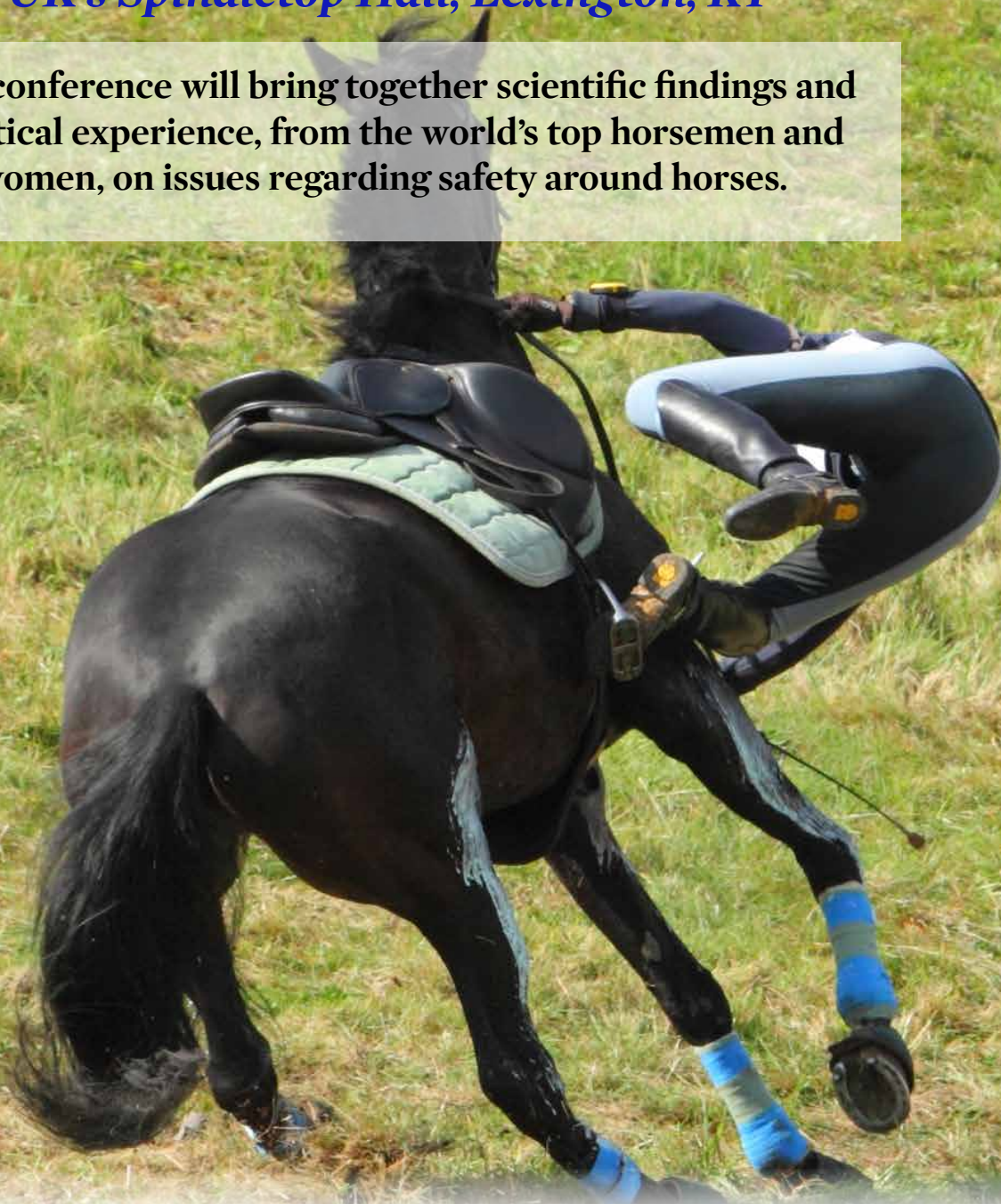
Horse Industry Safety Summit

April 23, 2019

7:30 a.m.-6:00 p.m.

UK's Spindletop Hall, Lexington, KY

This conference will bring together scientific findings and practical experience, from the world's top horsemen and women, on issues regarding safety around horses.



University of
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Ag Equine Programs
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College of Agriculture,
Food and Environment
Animal and Food Sciences



College of
Health Sciences



Bluegrass
Community & Technical College



saddle up
SAFELY



RETIRE
RACEHORSE
PROJECT



NEW VOCATIONS
newvocations.org



Four H



Pony
Club
Where it all begins

[For more information and to register.](#)

UK AG EQUINE PROGRAMS INVITES YOU TO
ATTEND THE

Program Reception and Internship Showcase

HONORING FALL 2018 INTERNSHIPS &
FRIEND OF THE EQUINE PROGRAMS

5:45 - 6:00 p.m. - Check In

6:00 - 7:15 p.m. - Reception & Showcase

7:15 p.m. - Program

THURSDAY, DECEMBER 6, 2018

University of Kentucky
Student Center Ballrooms B & C

RSVP - savannah.robin@uky.edu

(859) 257-2226

 University of
Kentucky

Ag Equine Programs
College of Agriculture, Food and Environment



On Friday, December 7, the University of Kentucky is hosting its Agricultural and Medical Biotechnology (ABT) Day for high school juniors and seniors. This event is an opportunity for students pursuing various STEM careers, including medicine and pharmacy, to learn about the ABT program and explore campus life at the University of Kentucky.

TENTATIVE SCHEDULE

12:00 - 12:30	Registration
12:30 - 1:30	Lunch, ABT Overview and Introductions
1:30 - 2:30	University of Kentucky Campus Tour
2:30 - 4:00	Tour ABT Research Laboratories
4:00	Closing, Q & A Panel with ABT Students

Questions may be directed to Lindsay Vance,
Center Relations Manager:
Email: lindsay.vance@uky.edu
Phone: 859-257-3468

ACADEMIC COMMON MARKET

Thanks to special state agreements through the Academic Common Market, students from the following states may enroll in the University of Kentucky Agricultural and Medical Biotechnology program at **in-state tuition rates**:

- Delaware
- Georgia
- Maryland
- Tennessee
- West Virginia

ABOUT THE PROGRAM

Biotechnology involves genetic engineering, antibody and vaccine production, fermentation technology, plant regeneration from single cells, and many more emerging scientific techniques.

The challenges of Agricultural and Medical Biotechnology are to expand its usefulness by identifying and cloning new genes and traits, developing new diagnostic tests and vaccines, and continuing to use these tools to better understand the plants, animals, and microbes that make up our world.

Scientists have a new set of tools through Agricultural and Medical Biotechnology:

- Plant, animal, and human disease diagnosis relies heavily on biotechnology for answers to age-old questions.
- Recombinant DNA technology (genetic engineering) provides enormous potential for detecting, modifying, or adding genes into organisms. We are no longer limited to the gene pool within a species.
- Fermentation biotechnology has led to the production of new livestock food additives, vitamins, and growth hormones.

...all in a fraction of the time it once took entire research teams to accomplish similar tasks...

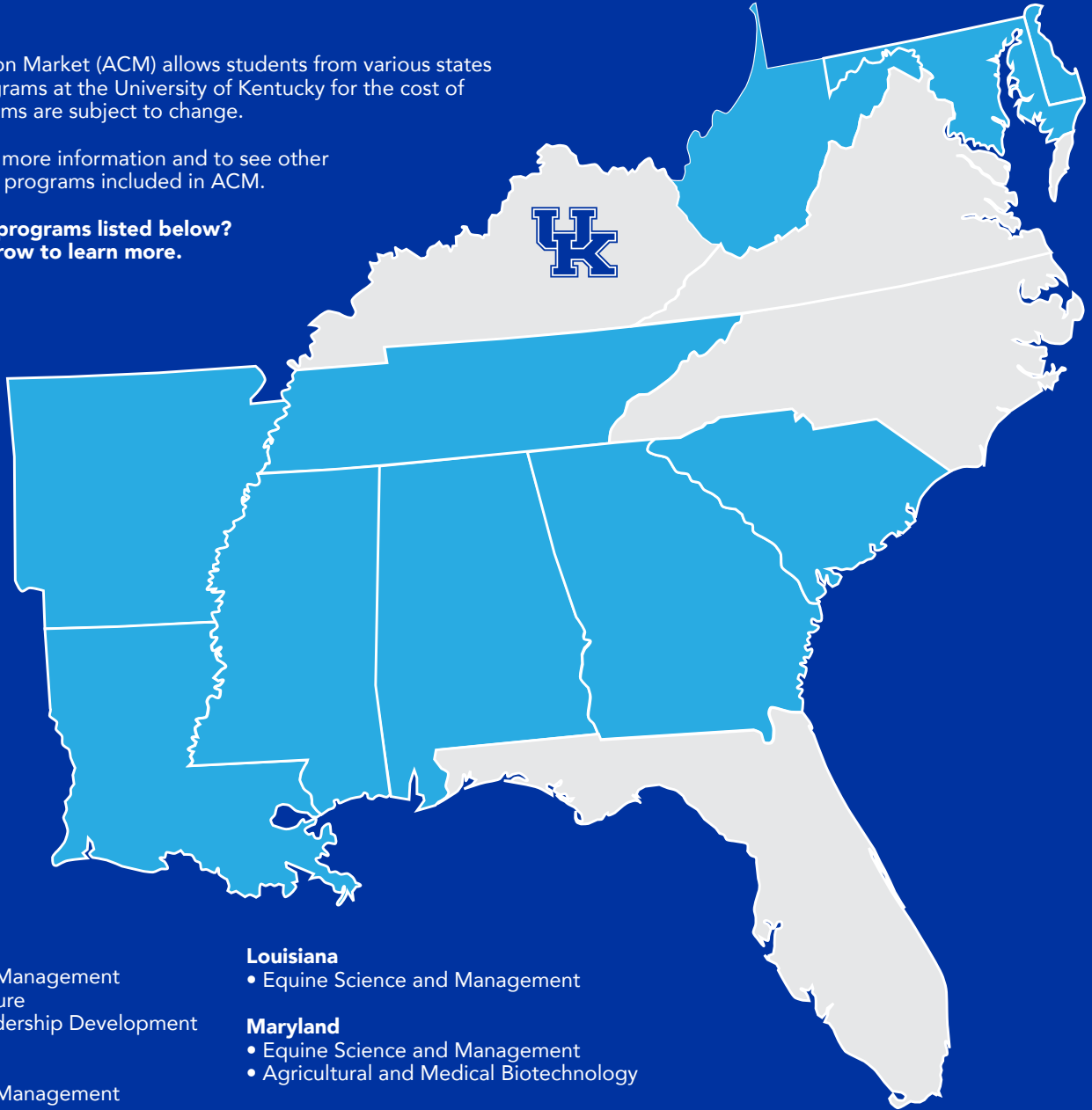
Are you from one of these states?

IN-STATE TUITION *is available through the academic common market*

The Academic Common Market (ACM) allows students from various states to enroll in select programs at the University of Kentucky for the cost of in-state tuition. Programs are subject to change.

Visit www.sreb.org for more information and to see other University of Kentucky programs included in ACM.

Want to explore the programs listed below?
Visit www.uky.edu/grow to learn more.



Alabama

- Equine Science and Management
- Landscape Architecture
- Community and Leadership Development

Arkansas

- Equine Science and Management

Delaware

- Equine Science and Management
- Agricultural and Medical Biotechnology
- Biosystems and Agricultural Engineering
- Animal Science (Animal Industry)
- Landscape Architecture

Georgia

- Merchandising, Apparel and Textiles
- Equine Science and Management
- Agricultural and Medical Biotechnology
- Biosystems and Agricultural Engineering
- Community and Leadership Development
- Animal Science (Animal Industry)

Louisiana

- Equine Science and Management

Maryland

- Equine Science and Management
- Agricultural and Medical Biotechnology

Mississippi

- Equine Science and Management

South Carolina

- Equine Science and Management

Tennessee

- Landscape Architecture
- Plant and Soil Sciences (Turfgrass)
- Community and Leadership Development
- Agricultural and Medical Biotechnology

West Virginia

- Food Science
- Community and Leadership Development
- Equine Science and Management
- Natural Resources and Environmental Sci.
- Agricultural and Medical Biotechnology
- Biosystems and Agricultural Engineering
- Animal Science (Animal Industry)



Ag Equine Programs
College of Agriculture, Food and Environment

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