2017 Nebraska Beef Industry Scholars Summit

Also in this issue:

14th Annual Nebraska Youth Beef Leadership Symposium

Nebraska Project Aims to Improve Land Use Efficiency
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Our featured stories include highlights from several summits and symposia that our faculty and students organized during the fall semester. For example, the Beef Industry Scholars Summit was organized and led by our student beef industry scholars. These students invited highly respected leaders from the across the beef cattle industry to speak at the well-attended event. We are proud of these students! Other symposia, including the Beef Leadership Symposium and the Beef Nutrition Conference are featured in this edition. We are pleased to introduce you to Dr. Travis Mulliniks, who joined us in September as a Beef Nutritionist–Range Production Systems Specialist at the West Central Research and Extension Center in North Platte. Travis came to us from the University of Tennessee and is already having a positive impact on our Beef Cattle Extension and Research programs.

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Nov. 16, 2017, the senior class for the Nebraska Beef Industry Scholars minor hosted the 11th Annual Beef Summit. Students develop the summit as a part of their fall class responsibilities to identify pressing issues in the beef industry and to host experts on those issues to present in front of an audience of 130 students, faculty, and producers. The event highlighted discussions on employee development and labor training, state taxation reform, and discussing modern agricultural practices with consumers. Speakers also provided NCBA policy updates, a CattleFax market outlook, and a trade update from the US Meat Export Federation.

Written by: Dr. Jim MacDonald
Beef’s Rapid Expansion

By: Shelby Cammack, Senior, Animal Science and Beef Scholar. Published in Nebraska Cattlemen, January 2018, Volume 74, Issue 1.

Total cattle inventory numbers, as well as the beef industry as a whole, are in a different kind of expansion phase, a beef market analyst told attendees at the 2017 Nebraska Beef Industry Scholars Summit.

“We are going through one of, if not the, most rapid expansions the beef industry has seen,” said Duane Lenz, a market analyst with CattleFax.

Lenz provided a market outlook to the participants of the 2017 Nebraska Beef Industry Summit at the University of Nebraska-Lincoln’s (UNL) Animal Science Complex Nov. 16. The event was hosted by the senior class of the Nebraska Beef Industry Scholars, a minor program within the UNL Animal Science Department that gives students a learning experience that combines beef science and industry leadership.

According to Lenz, as a whole, the beef industry is becoming increasingly responsive to consumer needs. Retailers are listening to consumers, and they respond by communicating with the packers and feedlots who, in turn, communicate with the cow-calf sector.

In the big-picture view, it’s not just about beef; it’s about all proteins. Pork and poultry are seeing record production, and consumers will have a lot of choices in the market in the next few years. Given all of this, beef demand is much better than most in the industry dreamed.

“Lower-priced proteins are tempting, but consumers like beef and they like what we’re doing. During times of recession, consumers cut back spending on a lot of things, but beef isn’t one of them,” Lenz said.

Looking at exports, this is a good time to be involved in agriculture and more specifically, cattle. The beef industry can see profit from targeting areas of rapid population growth. People around the world are coming into more money, which translates into spending more on protein. According to Lenz, the more money a person has, the more meat consumption goes up.

Retail spending is also up, according to Lenz, but restaurant spending is dropping off. Restaurants have seen a drop-off in customer traffic and per-person spending. Generally speaking, the beef industry likes seeing people in restaurants because of the number of steaks and burgers sold. Half of the meat sold goes to restaurants and other service providers.

In the last few years, retailers have been running great deals to bring people into their stores. There is a growing trend with consumers taking advantage of the retail discounts and cooking at home.

Discount supermarket chains like Aldi and Lidl have seen aggressive growth over the last few years. These stores are looking to sway price-conscious shoppers from major retailers like Walmart, Kroger and Costco. Lenz expects retail price wars in the next few years. Stores like Aldi and Lidl are all about discounting and getting people in the store to spend money. Lidl offers a big meat case that’s reasonably priced, Lenz shared.

Looking at the beef industry in general, the number of cattle operations since 1986 has seen a 25 percent decrease across the United States. The number of small cow-calf operations has been the most rapidly shrinking group.

According to the most recent census data, the number of small operations with 1 to 99 head has been declining. However, growth is occurring in the number of 500-plus-head operations across the United States.

Lenz said the rate of decline in the number of operations is predicted to be slow, but he does not believe an increase in the number of operations will occur.

Lenz explained that the 2014 beef cow inventory number dropped down to 29 million head from as high as 39 million head in the 1980s, however, given the cyclical nature of the markets, the numbers have been on an upturn since 2015.

“When you lose all these cows from the market, you get something pretty dynamic going on. We get a market that just takes off and runs, something we had never seen before in the industry,” Lenz said.

He added that the growth of cattle production in states like Nebraska and the Dakotas has occurred in part due to the availability of pasture ground and feed.

“In the United States overall, we expect growth in 2018. However, we won’t see our biggest cow-calf numbers until probably 2020, still a few more years of growth,” he said, referencing the 1.05 million increase seen in the 2017 beef cow inventory.

“We have more cows out there producing calves, resulting in more slaughter, and we’re going to see further increases in the upcoming years. Slaughter will peak in 2022 following ‘cattle number peak’ this year, the beef industry is up 1.1 billion pounds of beef and 2018 will see another billion pounds of increase. Lenz expects that this next year will be one of the top five years in beef history from a production standpoint.

The feedlot side of the industry is following the pattern seen with cow-calf. The number of feedlots with 1,000 to 16,000 head capacities is shrinking, while the number of 16,000-plus head operations is growing. Lenz predicts this trend will continue in the next few years as well.

Feeding cattle is a risky business, and CattleFax is seeing more and more people working on risk management. Feeding cattle is an up-and-down business, depending on the market cycles.

“There is a lot of volatility in this market. Don’t try to outsmart the market; manage your risks and find ways to capture profits,” Lenz said.
A University of Nebraska-Lincoln research team will investigate how to improve land use efficiency through the integration of livestock and crop production systems.

The project is funded by a $1 million grant from the Foundation for Food and Agriculture Research. The team, which includes members of a new Nebraska Beef Systems Research Initiative, expects an integrated system, which overlays cattle grazing with existing crop production systems, to increase output per acre and reduce greenhouse gas emissions associated with production. The team will also examine if the benefits of using cover crops are retained when they are used for livestock forage.

James C. MacDonald, associate professor of animal science and ruminant nutrition at Nebraska, will lead the team in its investigation of various outputs including yields, soil health and greenhouse gas emissions, as well as the economic feasibility of adopting these new practices.

“Cover crops are a long-term investment to improve soil health and reduce erosion, but they can be difficult for producers to pay for,” MacDonald said. “U.S. Rep. Don Bacon, who represents Nebraska’s 2nd District, said: “As a member of the House Agriculture Committee, I know how important it is for producers to maximize livestock production and increase overall productivity. Nebraska is the number one state for beef and veal exports and for commercial red meat production. This grant will allow the University of Nebraska-Lincoln to contribute to the state’s cattle production and research effective land use practices to help new farmers.”

The availability of perennial forage for livestock production has decreased as farms move to less diversified systems to grow individual crops. Highly specialized systems, such as monoculture, may be less sustainable than diversified approaches in terms of resource efficiency and long-term profitability.

“If producers can graze cattle on cover crops, they could increase land efficiency and mitigate costs,” MacDonald said. "Cover crops are a long-term investment to improve soil health and reduce erosion, but they can be difficult for producers to pay for," MacDonald said.

"If producers can graze cattle on cover crops, they could increase land efficiency and mitigate costs." U.S. Rep. Don Bacon, who represents Nebraska’s 2nd District, said: “As a member of the House Agriculture Committee, I know how important it is for producers to maximize livestock production and increase overall productivity. Nebraska is the number one state for beef and veal exports and for commercial red meat production. This grant will allow the University of Nebraska-Lincoln to contribute to the state’s cattle production and research effective land use practices to help new farmers.”
For the weekend of Nov. 17–19, 2017, 32 high-school aged youth from across Nebraska, and five others from Kentucky, immersed themselves in the 14th Annual Nebraska Youth Beef Leadership Symposium (NYBLS) hosted by the Department of Animal Science. This successful, ongoing symposium is designed to introduce youth to career opportunities and current issues in the beef industry, to teach youth about the product they produce, and to further enhance their leadership and communication skills.

This year, two different programs were offered to youth, as part of NYBLS – “E-communicating” and the product-based “Culinary Challenge”. For both programs, building trust with consumers is of paramount importance. If we develop and wish to sell a product, consumers must trust what we say. If we wish to tell the story of beef production, consumers must trust what we say. Anne Burkholder, from Cozad, Nebraska, provided the keynote address on “Building Trust”. Per Anne’s website, she is a “native of urban Palm Beach County, Florida and an Ivy League educated athlete who was fueled by beef for many years before she understood where her beef came from.” Upon moving to Nebraska, she learned to operate a feedlot and is now a consultant in the beef industry. As part of her keynote, she discussed the importance of trust and transparency within the beef industry. She highlighted her usage of social media, including her Feedyard Foodie Blog as a site where people can read about the real story of beef.

Dr. Galen Erickson initiated the “E-communicating” group with an overview of the beef industry. Then, youth gained hands-on experience with ultrasound technology in association with reproductive physiology, learned about behavioral concepts relative to proper animal handling, and they learned why animal welfare is important to the beef industry. After gaining some basic information, it was project time. Working in small groups, these youth were asked to identify a needed point of clarification or education for consumers; then, they would develop a visually appealing, factual based infographic to concisely convey key knowledge to consumers.

CONTINUED ON PAGE 12
Chef John Kennedy of Omaha Steaks International Inc. demonstrates cutting techniques to participants Trevan Rut (left) and Megan Lehr (right).

Greg Wilke (left) and Jake Jensen examine different meat cuts.

Group members Taylor Cammack and Garrett Lamb (right) show off their culinary creation, the “All Business Burger.”

Jessica Lange shows off her group’s retail product, the “All Business Burger.”

Cooper Wright (left) and Jake Jenkins taste testing at a session about palatability with Dr. Ty Schmidt (right).
as Dr. Dennis Burson provided a detailed economic and market analysis of retail cuts within the carcass of beef. A secondary project for the “E-communicating” group was to conduct a Facebook Live interview. To prepare, Mr. Jon Vanderford, who hosts and is executive producer of “Pure Nebraska”, provided interactive discussion and practice regarding live interview techniques. E-communicating youth developed questions and conducted their own Facebook Live interview of NYBLS group leader Shelby Cammack (left) brainstorms with her group members Anna Ready (center), Skylar Sterns (2nd right), Lauren Trauerichtet (right), and Heath Keiser to come up with a visually appealing, fact-based infographic.

Those involved with the traditional “Culinary Challenge” of NYBLS gained in-depth knowledge of the product side of the beef industry, meat science, and marketing as they were challenged to develop and market a new beef product for consumers. The final, cooked product of each group was presented to a panel of judges and consumer appeal. However, taste alone would not win over these judges. Each group had to provide a detailed economic and marketing plan. Considering that one judge was a food product development specialist and the other an economics specialist, the developmental and marketing details were of critical importance. In preparation for such a daunting task, the “Culinary Challenge” youth learned of the origination of retail cuts within the carcass as Dr. Dennis Burson provided a beef carcass fabrication demonstration. Then, Dr. Ty Schmidt demonstrated, through sensory analyses, how origination and function of the muscle associated with those retail cuts affect palatability. For this year’s culinary challenge, youth had to work with ground beef, the heart clod, or flat-iron steak; all products that originate from the chuck. As students brainstormed ideas on how to develop an innovative retail product, Dr. Gary Sullivan and Chef Jon Kennedy provided support; detailing culinary concepts and demonstrating how flavor profiles can be developed through proper seasoning and cooking. Final products included “Beef Tenders” and “Cowboy Pizza”. There were BBQ, Mexican, and Italian lettuce wraps and “Pepper Poppers”, filled with beef, of course. For the more serious palate, one group presented the “All Business Burger” – stuffed with stuff! Judges were impressed with the creativity, communication skills, and business savvy of youth involved with this program. Increasingly, industry employers emphasize the importance of soft skills – leadership, communication, networking, and time management, to name a few. Skills that cannot be taught or learned overnight, but which must be developed and incorporated into our daily lives as habits. This year, throughout NYBLS, the “7 Habits of Highly Effective Teens” leadership program was internixed. Incorporating a fun and engaging platform, NYBLS youth learned the importance of being proactive, to begin with the end in mind, to put first things first (Big Rocks), to think win/win for all involved, to first truly listen and understand, to synergize and work with others, and finally to stay mentally and physically sharp.

At the NYBLS awards reception and dinner, attended by many parents, participants received certificates for participation in NYBLS and completion of the “7 Habits of Highly Effective Teens” program. In addition, six $500 CASNR scholarships were awarded to Wyatt Banks, Cynthia, KY; Jacy Hafer, Dunning, Neb.; TaraLee Hudson, Belvidere, Neb.; Malina Lindstrom, Elm Creek, Neb.; Amanda Most, Ogallala, Neb.; and Kelsay Schlichtman, Beatrice, Neb. for their sustained active and professional leadership and participation throughout the symposium. Then, Dr. Mike Boehm, Harlan Vice-Chancellor IANR, who was also in attendance, proceeded to double those scholarship offers to $1,000 each! Thank you.

Alli Raymond, Animal Science Admissions Coordinator, said “It was a privilege to meet the outstanding young people from across Nebraska and Kentucky who participated in the symposium. Nebraska is the Beef State, and we are pleased to partner with all our sponsors to participate in the development of future leaders of the beef cattle industry.”

Sponsors of the 2017 NYBLS include the Nebraska Cattlemen Foundation, the Nebraska Beef Council, the Nebraska Corn Board, and Cargill Corn Milling. Thank you.

Planning members for the 2017 NYBLS included Mr. Brad Bennett, Dr. Dennis Brink, Ms. Kinsey Freeman, Mr. Cole Meador, Ms. Alli Raymond, Dr. Bryan Reiling, and Dr. Gary Sullivan. Already, plans are underway for 2018, and if you know of youth who are interested in participating, please contact Alli Raymond at araymond2@unl.edu. NYBLS is scheduled for Nov. 2-4, 2018. The Nebraska Youth Beef Leadership Symposium is a truly unique opportunity for young people interested in the beef industry, and the Department of Animal Science is committed to helping develop the human capital needed to make Nebraska the epicenter of our beef industry.

Written by: Dr. Bryan Reiling

NYBLS group leader Shelby Cammack (left) brainstorms with her group members Anna Ready (center), Skylar Sterns (2nd right), Lauren Trauerichtet (right), and Heath Keiser to come up with a visually appealing, fact-based infographic.

Dr. Dennis Burson (center) explains beef carcass fabrication.
The Department of Animal Science hosted its annual Open House to highlight potential careers, academic programs and other opportunities to youth interested in animals. Fifty-five guests participated at the event, October 23, at the Animal Science Complex. Faculty and students presented a combination of hands-on stations including demonstrations from meat science, ruminant nutrition, stress physiology, and reproductive physiology. Additionally, various student organizations and teams such as the Husker Equestrian team, Judging teams, Pre-Vet club, Students for the Education of Exotic and Companion Animals, Block and Bridle Club, Rodeo Club, and Wildlife Club also had an opportunity to visit with the youth. Attendees traveled through the Animal Science building on a scavenger hunt to seek out facts related to classes and majors. This event provided youth a chance to explore animal-related academic programs and learn about opportunities for courses and extracurricular activities in a relaxed atmosphere.

Article and photos by: Alli Raymond
We host a nutrition meeting each fall on a Friday in early November that provides continuing education for feedyard nutrition consultants and allied industry. This meeting started in 2001 as a replacement for an interdisciplinary nutrition meeting hosted by UNL and industry. Attendance was dwindling back then and topics were general in nature. As a result, the group said either we discontinue or need to make a change. I started in June of 2001 and was disheartened to learn that the group wanted to disband. After discussions with numerous industry nutritionists like Bill Dicke, Mike Prokop, and UNL personnel, we made the decision to start a beef feedyard focused meeting, which is what lead to the Husker Beef Nutrition Conference.

The annual meeting is on a Friday before a home football game in early November and has been hosted at the Eastern Nebraska Research and Extension Center near Mead, Neb. at least the past eight years or so. The reason for that venue is that many of the consultants are traveling in from the region and prefer to not travel into Lincoln. Many attendees are alumni with advanced degrees from the University of Nebraska-Lincoln, so they may have done much of their research at ENREC. Lastly, the facility is excellent for hosting extension events like this. Our goal is to release the annual Nebraska Beef Report at this meeting as the first public release prior to mailings and promotion. Much of the research on feedyard cattle is utilized by consultants to improve nutrition and management programs for their clients in the region and nationally. Our goal is to affect positive change and impact their recommendations.

In Extension, we always strive to have a positive impact and base recommendations on science-based results. We also strive to measure impact programs, which is quite challenging. Between 75 and 125 consultants, allied industry, and graduate students attend each year. Consultants are from Nebraska and surrounding states. Topics vary based on timeliness and speakers consist of UNL faculty, faculty from other universities, and industry experts. The meeting is self-funded from meeting dues and annual sponsorship from the Plains Nutrition Council based in Texas. They have graciously helped sponsor this meeting for regional consultants that cannot attend or in addition to attending an annual meeting in San Antonio each April. Their support has been superb and an asset to continuing the meeting.

Based on meeting attendees, the number of cattle impacted by consultants attending annually varies from four to eight million head of cattle on feed (of the total of 11 to 12 million in large U.S. feedyards). Depending the topics, 50 to 75% of consultants will make changes to their practices and over 95% gain knowledge. Topics are chosen based on feedback and input from consultants to ensure we meet our targeted goal of education.

It is fun to organize and interact with many alumni and friends in the feedyard industry at this event. As always, we are open to input on how to continue to improve our delivery and topics and meet the needs for our state and region. As always, feel free to contact me at 402 472-6402 or at gerickson4@unl.edu with any feedyard related questions that I can help with.

Written by: Dr. Galen Erickson

HUSKER BEEF NUTRITION CONFERENCE

Dr. Galen Erickson, Professor and Beef Feedlot Extension Specialist (right), speaks to a group of farmers at the Husker Beef Nutrition Conference, Nov. 3, 2017, at the UNL Eastern Nebraska Research and Extension Center, Mead, Neb.

Participants listen attentively at the Husker Beef Nutrition Conference, Nov. 3, 2017, at the UNL Eastern Nebraska Research and Extension Center, Mead, Neb.
Students evaluate livestock at the AKSARBEN Livestock Judging Contest with UNL Animal Science department, Oct. 1, 2017, in the Thompson Arena, at the Nebraska State Fairgrounds, Grand Island, Neb. Photo by: Dr. Bryan Reiling

**AKSARBEN’s livestock judging event draws 530 participants**

Written By: Austin Koeller

Hundreds of college students and 4-H’ers packed into Thompson Arena at the Nebraska State Fairgrounds on Sunday. They were ready to concentrate.

Before them were a variety of livestock including lambs, goats, hogs, steers and heifers. Their task was to examine the physical attributes of each animal and judge them as part of the AKSARBEN livestock judging contest Sunday.

Bryan Reiling of Lincoln, who served as co-superintendent of the contest, said about 530 people competed at the contest, including 15 senior college teams, 27 junior college teams and 27 4-H teams. He added that teams traveled from as far away as Kentucky and Virginia.

As part of Sunday’s contest, held for the 10th year and for the first time in Grand Island, Reiling said each contestant judged 12 classes of livestock and ranked them from best to worst against an official committee. After that, they proceeded to Barr Middle School, where they had a chance to explain their reasoning behind their rankings to the officials.

“They have two minutes to explain to an official why they placed the class the way they did,” Reiling said.

“They don’t have to agree with the official, they just have to provide a justification for why they placed it the way they did and get scored accordingly,” he said. Each place against the officials was worth 50 points. If a contestant matched the official ranking exactly, they scored 50 points.

“If, by chance, you switch the top pair — you switch the first- and second-place animals — there will be a slight deduction on that depending upon how tough the official thought it was. Those are called cuts,” Reiling said. The reasons are worth 50 points, too.

One team that competed at Sunday’s AKSARBEN livestock judging contest was from Oklahoma State University in Stillwater, Okla.

Oklahoma State Senior Layna Bond, of Galatia, Ill., said the team had a busy weekend. It competed at Flint Hills in Kansas on Friday and at AKSARBEN on Sunday. She said the ultimate goal is to get better to compete at the national livestock judging contest in Louisville, Ky., in November.

Dr. Blake Bloomberg, who coaches the team, said the livestock judging team of 19 students competes at 13 contests nationally every spring and fall. This is the fourth year he has brought a team to compete at AKSARBEN. He added the contest offers the students on the team a unique opportunity to show off their skill sets.

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Oklahoma State Senior Faith Onstot, of Austin, Texas, agreed with Bloomberg.

“You learn how to stay disciplined. You learn how to follow what your coach says to do, follow what you know is right and stop second guessing yourself,” she said. “That goes a long way in life. You learn how to make your decisions, be definitive about them and be able to talk to people about them.”

In terms of the AKSARBEN, Bloomberg, Bond and Onstot said they were impressed with the facilities and how the livestock judging contest was coordinated.

Bond said the livestock judging was a high-quality contest featuring great livestock from first through fourth place.

“Everybody who put the contest on was super nice and awesome,” Onstot said. “I liked how it was run. It was very organized.”

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The Loeffel Meat Laboratory will continue to sell meat in addition to ice cream and cheeses. The idea has proven popular.

“We went through the first set of products they brought over pretty quickly,” Braden said. Since the Dairy Store is open daily and sees a consistent amount of traffic, the idea was tossed around to sell meat in addition to ice cream and cheeses. The idea has proven popular.

“That goes a long way in life. You learn how to stay disciplined. You learn how to follow what your coach says to do, follow what you know is right and stop second guessing yourself,” she said.

A partnership with the animal science department has been in the works for some time, Braden said. Since the Dairy Store is open daily and sees a consistent amount of traffic, the idea was tossed around to sell meat in addition to ice cream and cheeses. The idea has proven popular.

“While expanding our product selection is always great, this is really about supporting the university community,” said Leroy Braden, Dairy Store manager.

“The locally sourced meat is processed entirely by students.”

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“While expanding our product selection is always great, this is really about supporting the university community,” said Leroy Braden, Dairy Store manager.

“The locally sourced meat is processed entirely by students.”
Dairy Extension partners with Midwest Dairy Association to offer ambassador program

By Kim Clark, Dairy Extension Educator and Dr. Paul Kononoff, Dairy Extension Specialist

Two years ago when Nebraska Dairy Extension was building their dairy program, they knew there was a missing link: college students. The Dairy Extension program provides science-based information to Nebraska’s dairy producers, but students with a dairy background and interest have no way to remain involved in the dairy industry until now.

Nebraska Dairy Extension began partnering with the Midwest Dairy Association to offer a Dairy Ambassador program to Nebraska’s college students. The Midwest Dairy Association offers each ambassador the opportunity to earn up to a $1,000 scholarship based on the level of involvement and the number of completed activities.

In January, the program entered its third year of working with college students that have an interest or background in the dairy industry. The year-long program is designed to give ambassadors a better understanding of the dairy industry from the farm to the processing. Additionally, ambassadors visit dairy farms, participate in communications training, job shadow, and promote the dairy industry at events such as Ag Literacy Festivals, farmers markets, Moo at the Zoo, the Nebraska State Fair and more throughout the year. In previous years ambassadors have been students at UNL, Nebraska College of Technical Agriculture in Curtis (NCTA), and Southeast Community College (SCC) in Beatrice.

Two ambassadors traveled to North Bend Elementary School, October 31, to teach students how to milk a cow and how to make butter.

Ambassadors Dawn Klbbenes, UNL Animal Science major (left), and Maranda Kegley, UNL Ag Education major, are two of the 2017 Dairy Ambassadors. There were fun activities for all ages at various events throughout the year.

Photo courtesy of Kristen Hassebrook.

Ambassadors traveled to North Bend Elementary School, October 31, to teach students how to milk a cow and how to make butter.

Photo courtesy of Kim Clark.


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FACULTY PUBLICATIONS


Cadarat CN, Beeke KA, Riley HE, Yates DT. 2017. Acute exposure of primary rat soleus muscle to zilpaterol HCl (β2 adrenergic agonist), TNFα, or IL-6 in culture increases glucose oxidation rates independent of the impact on insulin signaling or glucose uptake. Cytokine 96:107-113.


*Faculty names are in bold.*
The Department of Animal Science is pleased to have on board Dr. Travis Mulliniks, Assistant Professor—Extension Specialist—Beef Nutritionist and Range Production Systems Specialist.

Mulliniks began working in the department, Sept. 11, 2017, and assists Extension educators with research at the West Central Research and Extension Center in North Platte, Neb. and the Gudmundsen Sandhills Lab, in Whitman, Neb.

Born and raised in Preston, Okla., Mulliniks grew up on a cow-calf operation raising cattle and training horses, which later inspired his research. His interest in animal nutrition landed him into the world of Animal Science to pursue a bachelor of science degree at Oklahoma State University. After this, Mulliniks pursued a master’s degree in Animal Nutrition at New Mexico State University. His research focused primarily on nutrition and reproduction interaction in young range cows and how to nutritionally increase reproduction in two- and three-year-old cows.

Mulliniks continued on and pursued a Ph.D. in Animal Science. He got the opportunity to work at the USDA Fort Keogh Livestock and Range Research Laboratory, Miles City, Mont., where he researched how insulin resistance, measured by blood ketone concentration, influenced conception date in young cows.

After earning a Ph.D., in 2012, Mulliniks was on faculty for five years at the University of Tennessee as Assistant Professor Beef Cattle Nutrition. While there, Mulliniks’ research focused on the management practices to increase profitability and cow/calf efficiency. Even in high feed resource environment as Tennessee, Mulliniks’ research illustrated that increased milk production decreased pregnancy rates in mature cows and decreased feed efficiency in post-weaning calves. In addition, the metabolite ketone, measured with a ketone meter at the chute, was a good predictor of probability of timing of conception in beef cows.

Today, Mulliniks incorporates this and prior years of research on insulin resistance and metabolic efficiency in cows into his research at UNL. His focus is increasing energy utilization and metabolic efficiency in range beef cows.

Mulliniks has authored or co-authored over 35 peer-reviewed journal articles. He has published his research in more than 14 journals. Some of these include:

- Journal of Animal Science
- Professional Animal Scientist
- Rangeland Ecology and Management
- Agronomy Journal
- Metabolomics
- Agricultural Systems

Written by: Peta-Gaye Clachar
Communication Specialist

Dr. Travis Mulliniks relocates to Nebraska from Tennessee to accept an Assistant Professor position in the Department of Animal Science.

Photos by: Peta-Gaye Clachar

(Left photo): Dr. Travis Mulliniks collects a blood sample.
Photo by: Rafael Cardenas

Dr. Travis Mulliniks with some cattle at the Animal Science Complex.
In October, Dr. Chris Calkins hosted the most famous meat scientist in all of Europe—Dr. Eero Puolanne, from the University of Helsinki in Finland, as well as four of his graduate students.

Dr. Puolanne is the recognized leader of the International Congress of Meat Science and Technology, an annual gathering of meat scientists from around the world. The group toured Hi-Gain Feedyard in Cozad with Jeff Rudolph. They also enjoyed a visit to Shannon and Paul Peterson’s cow/calf operation in the sandhills. The group then went to Greater Omaha Packing Co. and the Smithfield dry sausage plant in Omaha. The three-day visit ended with a seminar and scientific exchange.

Written by: Dr. Chris Calkins

When a department has an international reputation, global connections occur.

From l-r: Felipe Ribeiro, Kellen Hart, Dr. Eero Puolanne, Dr. Chris Calkins, Morgan Henriett, Anu Kuusmanen, Nea Tukia, Nicolas Herrera, Sini Möttönen, and Paula Salo

Photos courtesy of Dr. Chris Calkins.
Krehbiel selected for Big Ten leadership programs

Published: Oct. 9, 2017, UNL Today — 10 faculty selected for Big Ten leadership programs

The Office of the Executive Vice Chancellor is sponsoring the participation of 10 University of Nebraska–Lincoln faculty members in the Big Ten Academic Alliance Leadership Development program for the 2017-18 academic year.

Husker faculty will participate in two of the leadership development areas — academic leadership and department executive officers.

Fellows in the Academic Leadership Program are: Shannon Bartelt-Hunt, professor of civil engineering and Robert B. Daugherty water for food fellow; Sonia Feigenbaum, associate vice chancellor for international engagement and global strategies and senior international officer; Deb Hamernik, associate dean of agricultural research division and professor of animal science; Matthew Jockers, associate dean for research and partnerships and Susan J. Rosowski associate professor of English; and Sherri Jones, department chair and director of Barkley Memorial Center and professor of special education and communication disorders.

Nebraska’s Department Executive Officer fellows are: Marco Abel, department chair and professor of English; Richard DeFusco, department chair and professor of finance; Clinton Krehbiel, department head and professor of animal science; Tom Marley, department chair and professor of mathematics; and Harris Smith, director and associate professor of the Johnny Carson School of Theatre and Film.

The Academic Leadership Program is one of the most successful leadership initiatives of the Big Ten Academic Alliance. Established in 1989, the program develops the academic leadership and managerial skills of nominated faculty who have demonstrated exceptional ability and academic promise. The program addresses the challenges of academic administration at major research universities, while helping faculty members prepare to meet those challenges.

The Academic Leadership Program fellows will attend their first seminar in mid-October at the University of Iowa, followed by one in February at the University of Michigan. In April, Nebraska will host the third and final seminar of the program.

The Department Executive Officer fellows program was started in 1997 as an annual program of leadership opportunities for university department heads and chairs. Each year, approximately 75 department heads and chairs from Big Ten universities come together for this unique leadership development seminar. Topics at the three-day event range from conflict resolution and time management to faculty development, performance reviews and group problem solving. This year’s seminar will be Nov. 9-11 at the Big Ten Center in Chicago.

Jeffrey Perkins honored at IANR awards luncheon

ENREC Swine Unit Manager Jeffrey Perkins (center) receives the 2017 Omtvedt Servant Leader Award from IANR Associate Vice Chancellor Ron Yoder (left) and IANR Harlan Vice Chancellor Mike Boehm at a luncheon in the Nebraska East Union, Dec. 1, 2017.

Photo by: Craig Chandler - University Communication

OMTVEDT SERVANT LEADER AWARD: The Omtvedt Servant Leader Award recognizes outstanding managerial/professional and office/service employees. This award is made possible through the generosity of Lee Harlan and her late husband, Neal, in honor of Irv Omtvedt and his distinguished career at the university. Jeffrey Perkins received $1,000 and a plaque. Published: Dec. 5, 2017; https://ianrnews.unl.edu/ianr-faculty-staff-honored-awards-luncheon-1
Who is the professor you are working with on this project?

Dr. Samodha Fernando

What is the title of your project or what are you hoping to determine from your research?

“Alternative Antibiotics”; we are hoping to isolate a natural probiotic from the rumen that is antibiotic resistant yet will kill bacteria that causes acidosis and liver abscesses (Strep. Bovis & Fusobacterium Necrophorum) in cattle. We have made great strides and hope to sell the product to be used as a feed additive.

How did you get involved with the UCARE program?

To be completely honest, I have always been behind in trying to figure out what I want to do in life. When I transferred to UNL all I wanted was to go home and work with my father in the family cattle operation. However, once I got to Lincoln, I had a change of heart and thought I had found a passion in microbiology. I landed a job in the Microbial Ruminant Nutrition Lab (Fernando Lab). Within a few weeks, I was infatuated by the work that was being done in Fernando’s lab. Dr. Fernando suggested that I should apply for both the UCARE and ARD undergraduate research.
"Sometimes you may have all of the support in the world with people who encourage you that you are capable of all things possible."

What has been your favorite thing about getting to do a research project as an undergraduate student?

CONNECTIONS! I never dreamed of the connections I would have already made by working on a research project. Not only do I get to interact with graduate and Ph.D. students, but I also get to be a part of their projects, as well as be invited to various graduate/Ph.D. talks. It’s incredible!

How does doing something like this benefit you?

While I am still not 100% sure where my future lies; working with a research project has definitely ensured me that I am set on furthering my education upon graduating in May. I hope to eventually apply to an Osteopathic school with intentions of studying Pathology. Without this experience through UCARE/ARD, I would not have had the courage to pursue my true passion. Sometimes you may have all of the support in the world with people who encourage you that you are capable of all things possible. However, it isn’t until you get a chance like this, and a mentor like Dr. Fernando, to prove to yourself just how capable you are.

What advice would you give a new freshman Animal Science student?

Get involved! It doesn’t have to be something like a research project. Join a club, volunteer, be a part of a team (like the Livestock judging team) — wherever your interest lies be a part of it! You can learn a lot in a classroom and in a book. Never underestimate what you can learn from fellow peers, advisors, mentors, etc.

Written by: Alison Bartenslager

Bartenslager picks colonies that will be transferred into individual wells to be grown for further testing. This process finds natural microbes from the rumen to use in a probiotic to reduce liver abscess-causing bacteria.

Photos by: Peta-Gaye Clachar
What is your story?
I found my passion for agriculture and the beef industry towards the end of my high school years, and since then it has taken me so many places. I have no background in the cow/calf industry, or in any part of the beef industry for that matter, but it’s time I made myself part of the industry that I love. It is my plan to start a herd of 2-4 bred Angus heifers within these next couple of years on my family’s acreage outside of my hometown. I hope to grow this herd into a successful cow/calf operation that I can pass down for generations.

What is your business?
I plan to start my own cow/calf herd of angus heifers from the ground up on my family’s acreage. I plan to start this herd with a few head of bred heifers this coming year and grow them into a larger herd in the near future so I may provide quality genetics for other producers.

Who is your entrepreneurial inspiration OR biggest hero?
My biggest inspiration and influence in my life has been a family friend, a brother, and a mentor to me. I have known Daryl Crook since I was three years old and he has only continued to teach me and influence me since then. He is where my passion for beef began and has grown. Without him, I doubt I would be involved in this program and working towards a career in the beef industry.

If your story were made into a movie, what actor/actress would portray you and why?
Lucille Ball definitely comes to mind. I adore her wit and wonderful sense of humor that she uses to get through from day to day and she can often be seen doing something she was told she couldn’t do, despite anyone’s efforts to stop her.

What advice would you give to a student starting their entrepreneurial journey?
Don’t do something you’re not fully passionate about, or you might as well not do it at all. Find what you’re passionate about and with grit and courage take a step to begin fulfilling your passion and idea.

https://engler.unl.edu/anna-kobza

Published by: Institute of Agriculture and Natural Resources

St. Maint. 2018 ANIMAL SCIENCE NSIDER

IANR SPOTLIGHT
ANNA KOBZA

Hometown: David City, Neb.
Major: Animal Science
Minor: Engler Entrepreneurship, Beef Industry Scholar
Graduation Date: May 2020

Photo courtesy of Anna Kobza.

What did you decide to come to the University of Nebraska–Lincoln?
I decided to come to UNL because of the academic and athletic resources, and the opportunities available to me. Nebraska stood out to me as a college because of the welcoming environment and the diversity on campus.

What is your favorite class you have taken so far and why?
My favorite class that I have taken so far is English 150 with Scott Guild. The professor made learning fun and interactive. He was a very personable professor and was genuinely interested in how you were doing in class and outside of class.

What are your plans post-graduation?
My plan post-graduation is to work in a zoo as a zoo keeper or in a wildlife sanctuary. I want to work with carnivores or African animals. I am hoping to obtain an international job working in wildlife conservation or at a rehabilitation facility.

What’s life like outside school?
Life outside of school is filled with homework, athletics and having fun with friends. I love being in the outdoors, so oftentimes you will find me studying outside or going on a hike somewhere.

https://ianrnews.unl.edu/student-spotlight-kayla-gadeken

Published by: Institute of Agriculture and Natural Resources

IANR SPOTLIGHT
KAYLA GADEKEN

Hometown: Seward, Neb.
Major: Animal science with equine science option, and fisheries and wildlife with an emphasis in zoo animal care
Graduation Date: May 2020

Photo courtesy of Kayla Gadenken.

Published by: Institute of Agriculture and Natural Resources

IANR SPOTLIGHT
KAYLA GADEKEN

Hometown: Seward, Neb.
Major: Animal science with equine science option, and fisheries and wildlife with an emphasis in zoo animal care
Graduation Date: May 2020

Photo courtesy of Kayla Gadenken.

Published by: Institute of Agriculture and Natural Resources

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Photo courtesy of Kayla Gadenken.

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Graduation Date: May 2020

Photo courtesy of Kayla Gadenken.
Rwandan student succeeds at UNL animal science program

Written By: Erica Courtney
Published: Oct. 31, 2017, The Daily Nebraskan

For University of Nebraska-Lincoln sophomore animal science major Esdras Tuyishimire, leaving his family and home to attend school far away is no big deal. He’s done it all his life.

Prior to attending UNL, Tuyishimire grew up in Eastern Province, Rwanda, and spent most of his teenage years in boarding school. He said it was a decision he did not have much say in. Most students attend boarding schools across the country after finishing elementary school.

“Being away from my family was no problem,” Tuyishimire said. “The whole country goes to boarding school.”

Though boarding school may sound like a great opportunity to gain some independence at a young age, Tuyishimire said this was not always the case.

“[For the] first three years I was in Catholic school. We didn’t have a lot of independence,” Tuyishimire said, “Even though we were not with our parents, those priests were parents.”

While attending boarding school, Tuyishimire befriended people who grew up in different areas of Rwanda. At school he spent so much time with his friends that it began to influence the way he behaved at home.

“I took some of their behaviors, we spent a lot of time together so that means I might do something that I can’t when I was with my family,” Tuyishimire said.

Not only did Tuyishimire catch onto the behavior of his boarding school friends, but, according to UNL freshman pre-health major Kaylee Rhoades, a chemistry classmate of Tuyishimire, says his time at boarding school seemed to make him more outgoing as an individual.

“I had to be an animal science major so then I can own my own cows and take care of them,” Tuyishimire said, “So [I decided] being animal science would be better than being dentistry.”

Even though Tuyishimire is only in his second year at UNL, he said his decision to move to Nebraska was the right one.

“Nebraska is one of the states with highly advanced agricultural technology,” Tuyishimire said. “I hope to gain more knowledge from here.”

“I was interested in [agriculture], especially animal science,” Tuyishimire said. “Then through the partnership of my government and UNL, I got a scholarship.”

Studying animal science was a practical decision for Tuyishimire because he wants to own and raise his own cows like his family.

“My dad owned cows, so I decided

Esdras Tuyishimire stands outside the Nebraska Union in Lincoln, Neb., Oct. 26, 2017. Esdras is a UNL student studying animal science and is from Rwanda.

Photo by: Hannah Rogers

Graduate student earns first of two Meat Science Ph.D. degrees

Felipe Azevedo Ribeiro (2nd right), a doctoral student of Dr. Chris Calkins (2nd left), earned a Ph.D. from the University of Sao Paulo in December. Felipe participated in a sandwich program to conduct the research for his Brazilian degree here in Animal Science at University of Nebraska-Lincoln. He will continue to conduct additional research and take classes in pursuit of his Ph.D. in Meat Science and Muscle Biology from our department. Congratulations Felipe!

From left to right is Dr. Pedro Eduardo De Felicio, Dr. Chris Calkins, Dr. Carmen Josefina Contreras Castillo, Dr. Felipe Ribeiro, and Dr. Sergio Bertelli Planzer Junior.

Photo courtesy of Dr. Chris Calkins.
In the late 1960s, feedyards were becoming larger and more complex. To give our undergrads experience in feedyards, we initiated a summer internship program where students spent the summer in a feedyard and then wrote a summary in the fall to complete their credit. During the next 20 years, more than 50 students participated in the summer internships. Two names familiar in the Nebraska Cattle Feeding Industry are Craig Uden and Jeff Rudolph. They completed the summer internship in the early ‘80s. Craig went on to manage Darr Feedyard during its growth from hundreds to 50,000 today. He is now president of NCBA. Jeff manages Hi Gain Feedyard with 30,000 hd capacity at two locations.

In the mid ‘80s, we believed that the summer internship could be expanded in order to give students more depth in feedyard management. The expanded program involves six weeks of class, three hours per day, during the period from Memorial Day to July 4. Topics are Nutrition and Management, Health, Economics and Personnel in feedyard management. The expanded program involves six weeks of class, three hours per day, during the period from Memorial Day to July 4. Topics are Nutrition and Management, Health, Economics and Personnel Management. The students are in feedyards from then to Thanksgiving, when they return to campus for two periods from Memorial Day to July 4. Topics are Nutrition and Management, Health, Economics and Personnel Management. The students are in feedyards from then to Thanksgiving, when they return to campus for two periods from Memorial Day to July 4.

The current internship program was initiated in 1988 with three interns. One hundred fifty seven students have now completed the program. About half are UNL graduates, the others are from other states. Following are the names of former interns that are directly involved in the Nebraska Cattle Industry:

- Ron Koranda-Manager of Winner Circle Feedyard, Minatare, Neb.
- Terry Heinle-General Manager of Winner Circle Feedyards in Nebraska, South Dakota and Kansas.
- Ryan Schultis-Feeding, farming and cow operation, Tryon, Neb.
- Alan and Robert Cumming-Father and son completed the internship and feed cattle, Moorhead, Iowa.
- Jeff Underwood-Feedyard, Exeter, Neb.
- Jake Neil-Feedyard, Shelby, Neb.
- Ritch Bythe-Feedyard, Overton, Neb.
- Mark Blackford-Manager of Craig Cattle Co., Craig, Neb.
- Doug Setlik-Feedyard, Ord, Neb.
- David Wilke-Feedyard, Columbus, Neb.
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- Mark Blackford-Manager of Craig Cattle Co., Craig, Neb.
- Doug Setlik-Feedyard, Ord, Neb.
- David Wilke-Feedyard, Columbus, Neb.
- Erick Burken-Manager of feedyard in Russia.
- Cory Schlueter-Feedyard, Scribner, Neb.
- Doug Anderson-Buying cattle, Kearney, Neb.
- Mike Cherry-Livestock Employment Consultant
- Jarrod Knorr-Manager of Ralikes Feedyard, Ashland, Neb.
- Greg Heiting-Feedyard, Hay Springs, Neb.
- Cody Weitzenkamp-Feedyard, Hooper, Neb.
- Emily Fox and Holly Heil; back row l-r: Joseph Kridera and Jiehua Xiong

Several students have completed the internship prior to enrolling in graduate school. Rob Cooper, Casey Macken, Kyle Vander Pol, Matt Greenquist, Will Griffin, and Curt Bittner have Ph.D.s and work as feedyard nutrition consultants in Nebraska. Dirk Burken works as a consultant in Canada; and Josh Benton works for Lone Creek Cattle Co. in Nebraska. Jim McDonald is an Animal Science faculty member.

Three former interns have M.S. degrees and work in Nebraska: Meredith Bremer at the Nebraska College of Technical Agriculture at Curtis, Brianna Conroy at the Feedyard with 30,000 hd capacity at two locations.

Cattle Industry: 
- Ryan Danehey-Cattle procurement for Innovative Livestock Services with nine yards in Nebraska and Kansas.
- Andrew Sunderman-Feedyard, Norfolk, Neb.
- Troy Eberle-Feedyard Operations Manager, Adams Land and Cattle, Broken Bow, Neb.
- Brandon Sorenson-Boerts Feedyard, Lexington, Neb.
- Tony Wagner-Adams Land & Cattle, Broken Bow, Neb.
- Bill Rhea-Feedyard, Arlington, Neb.
- Byron Ford-Feedyard, Cairo, Neb.
- David McDonald-Feedyard, Phillips, Neb.
- Neal Kanel, Todd Coppel, Justin Tolman and Dick Travis, own or work for companies related to cattle feeding.

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What a fall it has been for the 2017 UNL Livestock Judging Team. After one of the more successful spring semesters in recent memory, eight driven young people returned to accomplish the goal of winning a national championship.

Preparation for the fall started before school was in session in August, with multiple practices across the state, including the Nebraska State Fair and two weekends spent in Iowa judging hogs. The team’s first contest was actually a full weekend with the Flint Hills/Mid-America Classic in Hutchinson, Kan. on Friday and the AKSARBEN contest on Sunday. At Flint Hills, the team finished 9th overall highlighted by Tyler Pickinpaugh receiving 4th in sheep/goats, 7th in hogs, and 6th overall while Jesse Paxton was 9th in hogs, and 9th overall. Two days later at AKSARBEN, Tyler Pickinpaugh was 6th overall with the team placing 5th in cattle, 7th in reasons, and 7th overall.

Things did not slow down at all from here, as the following weekend was another double-header with the Tulsa State Fair and State Fair of Texas. At Tulsa, Jesse Paxton finished 5th in sheep/goats while the team was 10th overall. However, there was quite the bounce back from a performance not up to our standards when the team travelled just down the road to Dallas, Texas. Here the team was 3rd overall, 2nd in cattle, 3rd in sheep/goats, 5th in hogs, and 5th in reasons. It was even a greater highlight of the year with Tyler Pickinpaugh being named High Individual Overall after first finishing 3rd in cattle, 4th in sheep/goats, 8th in hogs, and 2nd in reasons. This was quite the accomplishment and served as an excellent spring board into our final two contests of the year.

At the end of October, after a trip over fall break to Illinois and Iowa, along with many other long days and nights spent practicing, the team was loading up and heading for the American Royal in Kansas City. This contest serves as one of the largest and most prestigious contests of the year, even more so since Kansas City is right in our backyard. In an incredibly tough, challenging competition the team managed to finish 8th in cattle, 4th in sheep/goats, and 13th overall. Tyler Pickinpaugh was also 9th in sheep/goats. No one was satisfied with that output, and the team worked as hard as ever to ensure a better outcome two weeks later.

As the team embarked on their final venture, it was evident they were driven toward their goal. We had excellent workouts on the way to Louisville, Ky. for the North American International Livestock Expo – the site of our national championship. The history of this contest dates back pre-1900 to the historic Chicago Stockyards and Chicago International Stock Show. Our group showed they were up to any challenge and finished 9th in the entire nation! This was highlighted by team finishes of 5th in hogs, 5th in performance hogs, 3rd in swine reasons, 9th in cattle, and 10th in reasons. Alison Bartenslager finished in the top-20 (out of 138 contestants) in both sheep and hogs. Krista Carter and Jesse Paxton did the same in cattle and cattle reasons, respectively. Tyler Pickinpaugh turned in another great day taking home 3rd in hogs, 2nd in hog reasons, 10th in reasons overall, and 14th high individual.

As we begin a brand new group for 2018 at the National Western Stock Show, we hope they (and all our friends and supporters) look at the 2017 team as the pillar of excellence. This is one of the first teams in recent Nebraska memory to be as consistent in the top-10 in the nation weekend in and weekend out. These students have upheld themselves academically as well, with an average cumulative GPA of 3.25 while also being involved in other student organizations, undergraduate research, and undergraduate employment. Without the support of faculty, alumni, and friends of the program – none of these accomplishments would be possible. We look forward to a great 2018, highlighted by seeing all our alumni return to Lincoln on April 13 & 14 for our inaugural Alumni Weekend. We especially encourage all our judging alumni to be in attendance, as we’d love to catch up! As always we thank the Kimmel Foundation, Nebraska Cattleman’s Foundation, and Department of Animal Science, as well as the numerous donors, alumni, and producers for everything they do.

Written by: Brad Bennett
The University of Nebraska-Lincoln Horse Judging Team had successful year competing across the nation. This year’s team included Bailey Ziegler from St. Paul, Neb., Neil Henderson from Ashton, Neb., Caitlin Davis from Waverly, Neb., Selena Finn from Winside, Neb., Valerie Skaalrud from White Bear Lake, Minn., and Joeli Walrath from Ashton, Neb. coached by Dr. Kathleen Anderson and assistant coach Haylee Lavoie.

A variety of contests allowed this year’s team to see a large diversity of the equine industry and meet professionals all over the world. The 2017 judging season started off in Tulsa, Okla. at Tulsa State Fair where UNL receiving 5th place overall. Next stop was Columbus, Ohio for the All American Quarter Horse Congress Collegiate contest. In the limited division Selena Finn received 2nd overall, 4th in halter, Joeli Walrath placed 1st in reasons and 2nd in halter; and Valerie Skaalrud was 7th in halter. In the open division Caitlin Davis was 18th overall and 11th in reasons.

After a great contest in Ohio at the largest one breed horse show in the world, UNL continued to the 2017 AQHA World Championship Show Collegiate Horse Judging Contest held on November 12th in Oklahoma City, Okla. Bailey Ziegler finished 8th in performance, 9th in halter, and 8th overall at the AQHA World collegiate show in the limited division. The National Reining Horse Association Intercollegiate Horse Judging Contest came back this year with the great opportunity to judge live the NRHA futurity semi-finals finishing 10th overall as a team. The majority of this year’s team members were fortunate enough to compete in the limited division so they can compete as a team in the senior division to represent University of Nebraska-Lincoln next year.

The 2017 Junior Meat Judging Team consisted of Renae Sieck, Sophia Lentfer, Ryan Schroeder, Hunter Schroeder, Brent Tenopir, and Keaton Lusche and was coached by Jessica Lancaster. The team has some outstanding results to report. This fall we traveled to the National Barrow Show Meat Judging Contest in Austin, Minnesota, the American Royal Intercollegiate Meats Contest in Omaha, Neb., the High Plains Intercollegiate Meat Judging Contest in Frijon, Texas, and the International Intercollegiate Meat Judging Contest in Dakota City, Neb.

Next year’s season looks to be promising with talented individuals to represent the great state of Nebraska. University of Nebraska-Lincoln’s horse judging team would like to thank the Department of Animal Science for their support through another year to participate and learn about the equine industry!
Individual Overall, High Individual in Specifications, and 8th in Fresh Meats. The team at the National Barrow Show was 3rd High Overall Team, High Team in Specifications, 3rd in Total Placings, 4th in Processed Meats, 5th in Questions and 5th in Processed Meats.

At the American Royal, the team came away 9th overall in addition to 4th in Beef Grading. Individual Ryan Schroeder was the Reserve High Individual in Beef Grading. Brent Tenopir was Reserve High Individual in Placings. Hunter Schroeder wrote the high set of reasons for the contest in Pork Carcasses. Hunter Schroeder wrote the high set of reasons in Lamb Carcasses. Keaton Lusche was 8th in Specifications.

In addition, this year the University of Nebraska hosted the Mini American Royal, an invitational contest for teams to help prepare for the major contests in the fall. The contest allowed all individuals to compete and was a great learning opportunity. Renae Sieck was the High Individual Overall and the High Individual in Specifications, 3rd in Placings and 3rd in Reasons. Brent Tenopir was High Individual in Placings, Reserve High Individual in Specifications, and 3rd High Individual Overall. Keaton Lusche was Reserve High Individual in Specifications. Ryan Schroeder wrote the high sets of reasons for Short Loins and Rounds.

Team members had the tremendous opportunity to tour the Hormel Processed Meats Plant in Austin, Minn., where they got to see products like pepperoni, bacon, and SPAM be made. They also got to tour the SPAM Museum where they learned the history of SPAM, how SPAM is used in different countries, and sample various flavors of SPAM. In addition, the team toured Beef Products Incorporated (BPI) in Dakota City, Neb. where they learned more about Lean Finely Textured Beef and the enhancement of lower value subprimals. The Cargill Meat Solutions Schuyler Plant included the team in a pilot project for tours and information to youth across Nebraska and surrounding states. Plus, the team visited the John Morrell, operated by Smithfield Foods, plant in Sioux City, Iowa. The plant is the oldest pork plant in operation that still runs a harvest operation, fabrication floor, and processed meats division all out of the same location. It definitely was a unique piece of history for the team members to experience. Plus, the Cumming County Cattle Feeders held a dinner for the team and shared some University of Nebraska Meat Judging History, an outlook on the beef industry, and insight into day to day feedlot operations.

The team experienced once in a lifetime opportunities in the meat industry, many members are pursing meat industry internships for the summer of 2018 and graduating members are pursing positions in the meat industry. The experiences throughout the past year will stay with these members for a lifetime and have a positive impact on their future endeavors.
Mikaela Foecke scores big in championship game

Top photo: Animal Science student Mikaela Foecke (left) attacks the ball over Florida Gator defenders in the NCAA Volleyball Championship.

Bottom photo: Nebraska Cornhuskers: 2017 NCAA Volleyball National Champions

Photos courtesy of Nebraska Athletics.

IANR Fellowship Luncheon

Dr. Archie Clutter, Dean UNL’s Agricultural Research Division, presents the Widaman Distinguished Graduate Assistantship to Ashley Bigge in recognition of her outstanding performance as a graduate student at the Institute of Agriculture and Natural Resources Fellowship Luncheon, Nov. 6, 2017. Ashley is a Non-Ruminant Nutrition Ph.D. student advised by Dr. Sheila Purdum.

Dr. Tiffany Heng-Moss, Dean, College of Agricultural Sciences and Natural Resources, presents Ashley Conway (left) with the Nebraska Corn Board Fellowship at the IANR Fellowship Luncheon, Nov. 6, 2017. Ashley is a Ruminant Nutrition Ph.D. student advised by Dr. Mary Drewnoski.

Caitlin Cadaret (left) receives the Milton E. Mohr Fellowship from Dr. Tiffany Heng-Moss, Dean, College of Agricultural Sciences and Natural Resources, at the IANR Fellowship Luncheon, Nov. 6, 2017. Caitlin is a Physiology Ph.D. student advised by Dr. Dustin Yates.

Photos courtesy of IANR.
Scholarship Recognition Reception
Oct. 8, 2017, International Quilt Study Center and Museum

Nebraska Cattlemen Foundation Scholarship

Feedlot Management Scholarship

Frank and Shirley Sibert Scholarship
Frank and Shirley Sibert (center) with recipients (from l-r) Elizabeth Elliott, Hannah Settje, Sarah Buehler, and Jacob Lammers.

Don and Ray Gard Scholarship
Ray Gard with Kara Robbins.

Alice Doane with Lexi Ostrand.

Andy Bruntz Beef Industry Scholar Scholarship
Ann and Dave Bruntz with Joe Sondorman (right).

Oxbow Animal Health Companion Animal Scholarship
John Miller with Sophie Dinan and Emma Winters (right). Photos courtesy of Alli Raymond.

Doane Scholarship

Nebraska Cattlemen Foundation

Scholarship

Recognition

Reception

Student News

Photos courtesy of Alli Raymond.
The Block and Bridle Club kicked off the fall 2017 school year by making an appearance at both the Big Red Welcome Back Fair on City Campus as well as the East Campus Welcome Back Fair. This was a great opportunity to network and recruit new members.

The following weekend, members made a trip to Grand Island to volunteer at the Nebraska Cattlemen’s Beef Pit to help serve food to fair attendees. September began with club hosting the annual Steak Fry with steaks donated by Cargill, Inc. Members served a steak dinner to faculty, students, and community members and took donations for hurricane relief. At the end of the month, members helped with the AKSARBEN show to work with their animals.

In October, the club took advantage of an opportunity at the Department of Animal Science Open House to visit with prospective students to discuss the benefits of being a member of Block and Bridle. Towards the end of the month, members participating in the Little AKSARBEN show began to work with their animals.

The month of November started off with the Little AKSARBEN show. This event is a unique experience for members who have either shown in the past or as members with limited to no show experience to learn and compete with each other. This year we gave the option to show horses, swine, sheep, and/or cattle. At our monthly meeting we had the pleasure of listening to guest speaker, Russ Vering, NPPA President and owner of Central Plains Milling, talk about his feed milling business and the future of agriculture in Nebraska.

During December, we hosted an appreciation breakfast for the Animal Science faculty and staff with breakfast burritos, muffins, and coffee as a thank you for everything they do for our organization.

In Spring, the Big Red Beef Show committee will be hosting their cattle show, March 3 and 4. The club traveled for an industry tour to Missouri, January 12-15, and visited operations dealing with beef cattle, dairy cattle, swine and visited a few Amish family farms. They were joined on the tour by members of the University of Missouri’s Block and Bridle Club. Other opportunities and events include National Block and Bridle Conference in Orlando, Fla., Porkfest, and the Lincoln Public School’s Science Fair where they educate the elementary kids on where their food comes from.

This year, the club will also be having a ham sale prior to Easter. More information will be available closer to that time. Finally, the Honors Banquet will be held, April 14, in conjunction with the Animal Science Department’s Alumni Reunion.

Article and photos by: Erin Blucher
Spencer Noble, Grand Champion Novice Cattle Showman, poses with the winning steer at the Block and Bridle Little Aksarben Showmanship Competition. Amber Beasley (right) helps display the winner’s poster.

Winners of the Block And Bridle Aksarben Showmanship Competition. Front row l-r: Amber Beasley, Miranda Wordekemper, Michaela Horn, Alex Medina, and Megan Eckhoff, Back row l-r: Spencer Noble, Gilbert Seck, Oscar Munoz-Torres, Shelby Wachter, Shirley Busman, Adam Ollendorf, and John Allen, not pictured is Emily Critser.

Shelby Wachter, contestant 14 (left), Amber Beasley, contestant 3 (center), and Marydith Donnelly, contestant 27, await getting their cattle judged.
CONGRATULATIONS!
Undergraduates and their families celebrate their completion of bachelor degrees at a reception for graduating seniors, Dec. 8, 2017, at the Animal Science Student Commons.

Photos by: Peta-Gaye Clachar
Bachelor’s Degrees
Callie Albers
Carina Arriaga Gomez
Elizabeth Binfield
Brandon Burruss
Kevin Encinas
Zoe Francis
Hilary Fujan
Nicholas Greene
Nicolás Herrera
Ellie Karweik
Amanda Korus
Madison Martin
Whitley McBride
Chebika Nolletti
Jesse Paxton
Samantha Powell
Jaclin Schroeder
Garrett Sharp
Kelsey Sorensen
Reese Tuckwiller
Austin Woltemath
Bailey Ziegler
Graduate Degrees
Benjamin Hansen – M.S.
Sylvia Harrison – M.S.
Robert Jones – M.S.
Ashley McCoy – M.S.
Shelby Springman – M.S.
Jared Judy – Ph.D.
Mohamed Abedal-Majed – Ph.D.

Front row l-r: Ron Lewis, Sylvia Harrison, Dr. Andrea Cupp, Dr. Clint Krehbiel, Ashley McCoy, Ben Hansen, and Robert Jones; middle row l-r: Dr. Dennis Burson, and Jim MacDonald; back row l-r: Mohamed Abedal-Majed, Jared Judy, and Dr. Paul Kononoff

Photo by: Aliesha Dethlefs
Holiday Potluck

Photos by: Peta Gaye Cluchar
Joy Kovar, Principal Scientist, Biology Research & Development

Joy (M.S. 1992) joined LI-COR in May 1999 as a Research Technologist. While at LI-COR, Joy has provided significant contributions and provided application support for LI-COR products, including the DNA Analyzer, Odyssey CLx, Aerius and Pearl. Joy’s collaborative efforts, to characterize optical probes for use in small animal imaging systems, helped align LI-COR as a leader in NIR dye technology, bioconjugation and probe development. As part of the IRDye 800BK Clinical team, Joy has lead the non-clinical testing efforts for safety, pharmacology, and toxicology. She works closely with our Contract Research Organizations and our Regulatory Consultants to schedule necessary studies, draft and review protocols, monitor study progress and communicate these findings with the internal LI-COR team. The nonclinical strategy and implementation is just one of the essential components to successfully translate LI-COR’s IRDye 800BK to the clinic.

Joy is named as an inventor on two granted LI-COR patents and three patent applications. She has published 19 peer reviewed journal articles while at LI-COR and presented posters at several scientific meetings. Joy maintains relationships with key collaborators in optical imaging, photodynamic therapy and optoacoustic imaging. She will continue evaluating various probe technologies to enhance our understanding of how they work (IRDye 700DX/PDT), how these technologies might translate to the clinic, and ultimately promote new business opportunities for LI-COR.

Joy received her Associates Degree in Veterinary Technology from UNL NCTA, Bachelor of Science degree in Agriculture and her Masters of Science degree in Animal Science, both from UNL. Prior to joining LI-COR, Joy worked 17 years at UNL in the Department of Biochemistry and Biotechnology. In January 2014, Joy was appointed as an Adjunct Research Associate Professor at UNL Department of Biochemistry.

Please join me in congratulating Joy on her promotion!

Article and photo courtesy of LI-COR.

Casey Blum

Casey Blum (B.S. 2017) recently won a prestigious National USDF Championship – in Adult Amateur Dressage – 2nd Level with her gelding Eschaton. Blum just started a position in northern Illinois at Hueber Feeds as Equine Specialist.

Photo courtesy of Annan Hepner.

ASGSA Clothing Sale

The Animal Science Graduate Student Association is having its annual spring clothing sale! This year, the organization is selling soft-shell vests, hats, and short sleeve t-shirts. All proceeds from the sale goes towards helping fund the graduate students’ travel to conferences as well as other needs. If you are interested in supporting current Animal Science graduate students, or have any questions or comments in regards to design or pricing, that information is available at www.animalscience.unl.edu/asgsa or contact asgsa@unl.edu. Payment is due at time of order. All orders are due to the department by 5:00 p.m., March 16, 2018. Orders can either be picked up at the university or shipped directly to your location.

Ron Kohlmeier

Having tons of fun with family, alumnus Ron Kohlmeier (B.S. 1959) is sandwiched by daughter, Debbie (right), and wife, Carol at the 2017 NCAA Division I Women’s Volleyball Championship match at the Sprint Center, Kansas City, Mo., in December.

Photo courtesy of Ron Kohlmeier.
EVENT REGISTRATION

Return by March 30

Name(s)__________________________________________________________________________
Address__________________________________________________________________________
Email____________________________________________ Phone__________________________

Please reserve tickets for the following events:

Friday, April 13

_______ Ticket(s) for Alumni Reunion $30.00 each
Cash bar and heavy hors d’oeuvres at 6:00 pm, Friday, April 13 at Nebraska Innovation Campus Conference Center
______Animal Science Students $15.00 each
Registrations received after March 30 and walk-in guests will be an additional $10.00 each

Saturday, April 14

_______ Old Timers Judging Contest
_______ Lunch prior to Bull Sale
_______ Block & Bridle Honors Banquet, Honoree: Greg Ibach $25.00 each
Cash bar with Prime Rib and Chicken dinner 5:45 pm Reception/Social Hour, 6 pm Dinner at Nebraska Innovation Campus Conference Center

Total

Please make checks payable to: UNL Department of Animal Science

Please list all names as you would like them on your name tags If ASCI alumni, year graduated

Names (please print)

Return to Alumni Reunion, Department of Animal Science, C203 Animal Science Complex, University of Nebraska-Lincoln, Lincoln, NE 68583-0908

For further information, call 402.472.3571

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60th Annual UNL Rodeo
Friday, April 20: 1:00 pm & 7:00 pm
Saturday, April 21: 1:00 pm & 7:00 pm
Kids' day: 9:00 am – noon (kids free at 1:00 performance)
Lancaster Event Center, 4100 N. 84th St.

Advanced tickets sold at lancastereventcenter.org -> $5 off
VIP: $25/$30
Reserved: $15/$20
General Admission: $10/$15
College Student: $5 at door with ID
Youth Reserved: $7.50 advanced/$10 door (12 and under)
Youth General Admission: $5 (12 and under)
-- Youths free: Saturday 1:00 pm show -- 2 and under Free on lap

2018 Animal Science Alumni Weekend

Friday, April 13
6:00 p.m. Animal Science Alumni Reunion Nebraska Innovation Campus Conference Center
6:00-7:00 p.m. Social Hour Cash bar & Sherry hors d’oeuvres
7:00 p.m. Reunion Program Recognition of judging teams and alumni awards (Undergraduate Distinction, Graduate Distinction, and Distinguished Service)
8:30 p.m. Auction Live and silent auction

Saturday, April 14
9:30 a.m. Old Timers Judging Contest R.B. Warren Arena
11:30 a.m. Lunch Animal Science Commons
1:00 p.m. "Bulls Worth Waiting For" Sale B101
3:30 p.m. Block & Bridle Honors Banquet Nebraska Innovation Campus Conference Center

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2018 Animal Science Alumni Weekend

What’s big for UNL Rodeo from 2017?
CNFR Qualifiers
Logan Dibbern
Reed Kraeger
Regional Champions
Reed Kraeger
Steer Wrestling
All-Around
CNFR Results
Reserve National Champion Steer Wrestler - Reed Kraeger
Scholar Americans
Logan Dibbern
Trevor Roberts
Kara Robbins

Big deals for 2018?
Three returning two-time CNFR qualifiers
Logan Dibbern
Jake Fulton
Jarrett Oestmann

Men’s Team - 3rd in the regional standings after the fall portion of the season

Visit our Alumni Reunion webpage (https://animalscience.unl.edu/alumni-reunion) for more information about the events as well as alumni awards criteria and how to nominate.
February 22: Block & Bridle Club Porkfest, 5 – 6:30 p.m., Animal Science Complex
February 24-25: Equestrian Team Show, Animal Science Complex
March 5-16: Block & Bridle Club Ham Sales
March 10: 4-H Companion Animal Challenge, 9 a.m. – Noon, Animal Science Complex
March 10: 4-H Horse Stampede, 8 a.m. – 3 p.m., Animal Science Complex
April 13: Animal Science Alumni Reunion, 6 – 9 p.m., Nebraska Innovation Campus Conference Center
April 14: Old Timers Judging Contest, 9:30 a.m., Animal Science Complex
April 14: "Bulls Worth Waiting For" Sale, 1 p.m., Animal Science Complex
April 14: Block & Bridle Honor Roll Banquet, 5 p.m., Nebraska Innovation Campus Conference Center
April 28: Horse Judging School, 9 a.m. – 4 p.m., Animal Science Complex
May 30-June 1: Nebraska Youth Pork Conference, Animal Science Complex
June 5-7: Winners Unlimited Livestock Judging Camp, Animal Science Complex
June 11-13: Winners Unlimited Livestock Judging Camp, Animal Science Complex

District Horse Show Dates and Sites:
June 13 – Ord
June 14 – York
June 20 – Gordon
June 21 – Central City
June 22 – Curtis


For more information about any event, visit: www.animalscience.unl.edu

Reconnect...
Facebook and Twitter
Like our Facebook page at UNL Animal Science.
Keep up-to-date on department awards, events, and research by following @UNL_AniSci on Twitter.

Animal Science alumni website:
https://animalscience.unl.edu/alumni

Update contact information:
Alumni members, you can update your contact information by contacting the Nebraska Alumni Association at:
https://go.unl.edu/aw2t

Connect to job opportunities with Husker Hire Link
Husker Hire Link is UNL’s free online service that connects UNL students and alumni with employers. The site allows students and alumni to post and send resumes; search jobs, internships, and employers; request on-campus interviews; and stay updated on career opportunities.
For more information, visit Husker Hire Link at:
https://www.unl.edu/careers/hhl

The University of Nebraska–Lincoln Department of Animal Science publishes the Insider semi-annually.