

## CEEZAD team combats animal diseases in Asia



*Dr. Jürgen Richt collects samples from camels in the field.*

A team of Center of Excellence for Emerging and Zoonotic Animal Diseases (CEEZAD) scientists has returned from a two week-long visit to Asia designed to give lectures and combat the spread of animal diseases, including African Swine Fever (ASF).

Dr. Jürgen Richt, CEEZAD's director, led the team, which conducted lectures and field tests in China, Mongolia and South Korea.

In Mongolia, the team conducted field research in the Gobi Desert. That research included collecting blood and nasal swab samples from 90 young camels, and their diagnostic examination for Middle East Respiratory Syndrome and Foot and Mouth Disease.

Dr. Richt mentioned that all the drawn samples proved negative for either disease, although some of the laboratory testing for MERS remains ongoing.

In Mongolia, the camel sampling and testing efforts were conducted in the field using mobile diagnostic PCR machines (Biomeme Franklin). Then, at the Central Veterinary Laboratory in Ulaanbaatar, Mongolia, CEEZAD conducted additional research on ASF, Classical Swine Fever and FMD. There the team was able to amplify and sequence parts of the genomes of all three viruses from infected samples using the portable PCR machine and the portable next generation sequencing device (MinION Nanopore).

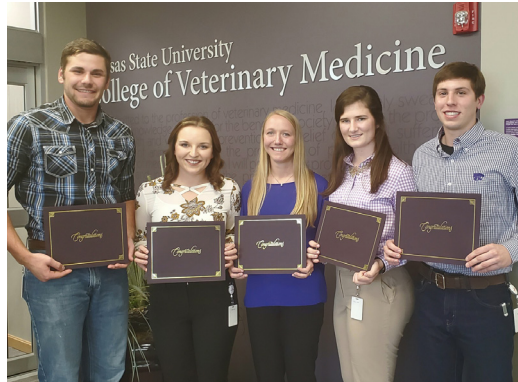
In Korea, the team met with swine producers, veterinarians and veterinary diagnosticians.

## CVM announces new class VTPRK scholars

Five new students have been chosen for the largest veterinary scholarship program offered by the state of Kansas: The Veterinary Training Program for Rural Kansas.

This year's recipients are first-year veterinary students: Kami Miller, Rachel Jones, Grace Luebcke, Jackson McCoolle and Boyd Roenne.

"The VTPRK program fulfills an important educational and service mission for the state of Kansas," said Dr. Bonnie Rush, dean of the College of Veterinary Medicine. "These students completed a rigorous selection process. They will complete additional training beyond the curricular requirements of the professional degree program to prepare them for success in rural practice. Scholarship recipients (past, present and future) create a



*(From left) Boyd Roenne, Rachel Jones, Kami Miller, Grace Luebcke and Jackson McCoolle plan to provide rural areas with veterinary care.*

unique community of supportive colleagues and represent the future of rural veterinary practice in Kansas."

The Veterinary Training Program for Rural Kansas was passed by the state Legislature in 2006 to provide a financial incentive to provide rural areas in Kansas with committed veterinarians. Program participants are eligible for up to \$20,000 in loans per year to

pay their tuition. Upon completion of their Doctor of Veterinary Medicine degree, each graduate is required to work at a full-time veterinary practice in one of the 91 Kansas counties with fewer than 35,000 residents. For each year the graduate works in rural Kansas, \$20,000 worth of loans are forgiven by the state. Graduates are expected to work four years in a designated county to receive \$80,000 in loan waivers.

Ninety-six percent of graduates are completing or have completed their loan obligation through service. Graduates who do not complete through service are required to re-pay the loan. The funds are reinvested through the addition of students to the program. Ninety-three percent of graduates who have completed their four-year obligation remain in a qualifying county.

## Dr. David Poole chosen for Iman Research Award

Dr. David Poole, Coffman Chair for University Distinguished Teaching Scholars and university distinguished professor of kinesiology and anatomy and physiology, received the Iman Outstanding Faculty Award for Research during a ceremony at the K-State Alumni Center.

Dr. Poole's award recognizes faculty members who have distinguished themselves in their chosen profession and who have contributed significantly through research to improve the betterment of the educational experience, or whose research has had a significant impact on their area of study.

Dr. Poole earned his Ph.D. in Kinesiology from UCLA and Post-doctoral Fellowship in Medicine from UCSD. He joined K-State's faculty in 1995. Dr. Poole is internationally recognized for his original discoveries in oxygen transport. Using innovative models



*Dr. David Poole has been awarded more than \$5 million as a principal investigator.*

including, humans, racehorses, dogs, elephants and rodents at rest and during exercise, his group has identified primary sites of metabolic control and the impact of diseases such as heart failure and diabetes, driving paradigm shifts in understanding how capillaries facilitate blood-tissue oxygen and substrate delivery. Discoveries made by Poole, his colleagues, notably

Dr. Tim Musch, and students have advanced novel therapeutic treatments for heart failure patients.

His nominator, Craig Harms, professor of kinesiology and department head, said, "I have seen, first hand, how he has distinguished himself both within and among our university faculty and our professional societies. David is truly one of the uniquely gifted talents found on our campus."

Dr. Poole has been honored by the British First Lady, Cherie Booth Blair, the Canadian Rechnitzer Foundation, the Danish Royal Academy of Science, and the American College of Sports Medicine.

Introduced in 2007, the annual Dr. Ron and Rae Iman Outstanding Faculty Awards are sponsored by the K-State Alumni Association and are made possible through the generosity of Ron and Rae Iman.

## CVM Students serve Kansas feedyards through BQA assessments



The BQA team assessed feedyards across the state. (From left) Front row: Jessie Vallejo, Sydney Bigger, Amy Servos, Savannah Miller and Arlen Stoller. Back row: Tyler Blackwood, Jared Bourek, Damon Smith and Dr. Dan Thomson.

This summer, in collaboration with the Kansas Livestock Association and the Kansas Beef Council, several veterinary medicine and animal science students traveled across the state to perform Beef Quality Assurance assessments at feedyards. The BQA Feedyard assessment focuses on animal welfare, records, protocols, facilities and equipment.

Over the course of three months, the group assessed 32

feedyards across Kansas. These feedyards represented 690,000 head on feed.

“We have been proud to provide service to our cattle feeding stakeholders in the state of Kansas since 2012,” said Dr. Dan Thomson, Jones Professor of Clinical Epidemiology. “Our goal is to empower our veterinary and animal science students to run the BQA assessment project as a business.”

## CVM team to provide health info at Okt-FLU-ber Fest



Last year's event saw a record of 681 administered doses. (Stock photo by Hyttalo Souza on unsplash.com)

Members from K-State's Master of Public Health (MPH) program and the CVM will be joining the Riley County Health Department on Oct. 24 for a special event: Okt-FLU-ber Fest.

These veterinary and public health experts will answer questions about influenza in pets and what people can do to keep all family members – people and pets – safe from various strains of influenza.

Okt-FLU-ber Fest will include a vaccine clinic for kids and adults in a fun, family atmosphere. The clinic is from 2-7 p.m. in Pottorf Hall at Cico Park in Manhattan. Registration for vaccinations closes at 6:45 p.m.

Each child who is vaccinated will receive a pumpkin while supplies last. Games and educational opportunities also will be available.

Last year's event saw a record number of vaccines administered: 681 doses by RCHD and Fort Riley staff. The Fort Riley Public Health Department will be available as well, offering vaccinations to military families.

“This is an important collaborative event to educate and inform our community about influenza and the One Health relationship between animals and humans,” said Ellyn Mulcahy, director of the MPH program.

## Clareburg Lecture features toxicologist



As part of its annual Clarenburg Lecture series, the CVM hosted Dr. Melvin (Mel) Andersen. Dr. Anderson's lecture topic was, “A 50-Year Career in Toxicology-Using Pharmacokinetic Models to Understand Dose-Response Relationships,”

## CVM News Ticker



Dr. Annelise Nguyen accepts the John Doull award at the annual meeting of the Central States Society of Toxicology from Dr. James Sacco, 2019-2020 president. She presented the lecture “Collaboration, Discovery and Innovation.”

Drs. Hans Coetzee, Michael Kleinhenz, Butch KuKanich, Abbie Viscardi, and Brad White as well as Ally Fitzgerald, Class of 2021, participated in the second biennial Pain in Animals (PAW) Workshop held at the NIH campus in Bethesda, MD. The focus of the meeting was cross-species assessment of acute pain.

Drs. Mac Hafen, Sarah Kaufman, Susan Moore, Annelise Nguyen, and Bonnie Rush sponsored the first college hot meal dinner event for students. The event was held on Oct. 6 at 6 p.m. Every sixth of the month, faculty and staff will donate prepared food items for the event. The number six honors our college as the sixth oldest veterinary school in the country.

Dr. Brian Lubbers received the FDA Group Recognition Award: “Vet-LIRN AMR and WGS Pilot Project Collaboration Group.” This award category recognizes superior achievement of the Agency's mission through teamwork, partnership, shared responsibility, or fostering collaboration and coalition to achieve FDA goals.

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