

SUMMER 2019



Photo: Dave Gieseke

On the Way to Their Forever Home

No one loves Iowa State's Veterinary Medicine Surgery, Anesthesia and Community Outreach program more than the pets themselves. It's not only saving their lives; the program is helping make those lives worth living.

Take the case of three Chihuahuas: Margarita, Fajita and Tamale. Mom and sons entered the shelter system in 2018 in Charles City, Iowa, given up by an older couple whose health was failing. The small humane society – one of approximately 30 served by Iowa State's program – delivered the dogs to the college's outreach program. Margarita wouldn't make eye contact. Fajita snapped and snarled. Tamale was even more aggressive.

"The students realized the dogs were scared and needed TLC," says Dr. Joyce Carnevale, assistant clinical professor of veterinary clinical sciences and program coordinator. "We used low-stress handling techniques and behavior modification to decrease their fear and anxiety. They made great strides throughout their stay."

Over the course of a pet's typical five-day stay, it will be evaluated, vaccinated and treated for everything from parasites to respiratory infections. It will be spayed or neutered. By the time the pet returns to the shelter, it will be adoption-ready.

"Since it began in 2016, we have treated approximately 1,800 pets," says Carnevale of the Iowa State

program. "Over 95 percent of them have been adopted shortly after returning to the shelter, largely because they have received comprehensive veterinary care."

Students say it is a tremendously rewarding program. "We are making a difference in pets' and people's lives," fourth-year student Lawton Herbert says. "That makes me very happy."

As for the Chihuahuas, the brothers ended up being adopted by members of the same family. Margarita's fate was just as happy.

"She joined my fur family," Carnevale says. "She is now completely settled into the family, bossing the big dogs, stealing the pillows and wearing her favorite cardinal and gold jacket."



THE WORLD ACCORDING TO SARAHBETH

Sarahbeth Barlas, a May 2019 veterinary medicine graduate and recipient of the Elfriede Apteker Scholarship, was diagnosed with double-deficit dyslexia during her first year of veterinary school, but she refused to give up her dream of improving the welfare of animals.

ON DETERMINATION

“My double-deficit dyslexia is comprised of both auditory dyslexia and a short-term memory processing disorder (dysnomia). I managed to keep up with my studies through sheer determination and learning some special study skills. Now I hope to serve as a model for other students with learning disorders.”

ON HER ‘FISHY’ MISSION

“Animal welfare is my passion. I believe that veterinary medicine can educate pet owners on how to care for their pets, particularly pet fish. Forming relationships with clients and reaching for this goal is what gets me up every morning!”

Banking on the Future

According to Kingland MBA Professor **James Brown**, people who grow up without access to financial institutions face lifelong disadvantages.

His research details how growing up in a community with banks leads to greater financial literacy and trust in financial institutions. Growing up in a “financial desert,” conversely, correlates to having lower credit scores and more delinquent accounts later in life.

“This exposure, or lack of it, shapes the way we learn about money and how to handle money over time,” Brown says. “You could be lifelong behind the curve in the way you get credit, pay for credit and obtain loans, as well as the rate you pay for those loans.”

Brown’s study found that mandated personal finance education can offset the negative effect of not growing up in a community with financial institutions.



An Energizing Accessory

For **Courtney Beringer**, a May 2019 mechanical engineering graduate, adding sewing to her wheelhouse wasn’t as challenging as she expected it to be. Along with senior in mechanical engineering Sam Vande Loo, Beringer spent the past three years working with Eulanda Sanders, chair of the department of apparel, events and hospitality management and Donna R. Danielson Professor in Textiles and Clothing, to develop and prototype a solar panel-equipped backpack.

“After conducting focus groups and online surveys, it was clear that students would use and benefit from a book bag with charging capabilities based off solar energy,” Beringer says. “Sam and I learned how to develop design patterns for the bag and sew – both oddly similar skills to engineering, it turns out.”

The team completed three prototypes of the bag.



SUPPORTING STUDENTS ACROSS BORDERS

Putting science, technology and human creativity to work is at Mary and Charles Sukup Global Professor in Food Security Tom Brumm’s core.



This past year, he funded senior design projects for three agricultural engineering students at Makerere University in Kampala, Uganda. One of the projects was completed by **Ismael Mayanja**, a Makerere University student who also interned at Iowa State for six weeks with support from the Sukup Global Professorship – an experience that provided him an opportunity to broaden his knowledge across borders. For his project, Mayanja designed a pedal-powered grain cleaner that is now being used to clean maize at the schools in the Iowa State–Uganda program.



Thomas Buyinza, post-harvest technology specialist for the ISU–Uganda program, shows a group of primary school students and teachers how to use the pedal-powered grain cleaner.

The other two student projects are a portable grain dryer and an amaranth threshing machine. “These projects solve problems encountered by the ISU–Uganda program and provide valuable training and experience for the next generation of engineers in Uganda addressing food security issues,” Brumm says. “While my research and personal efforts in Uganda’s Kamuli District can assist in providing food security, these professionals will be the leaders in implementing solutions that will ultimately make a difference.”

Welcome to **YOUR IOWA STATE**,
the newsletter that keeps you connected
with **Iowa State University**. Look inside to
find out what's happening on campus as
well as to relive some of your own Iowa
State memories.

IN THIS ISSUE

- On the Way to Their Forever Home
- The World According to Sarahbeth
- Banking on the Future
- An Energizing Accessory
- Supporting Students Across Borders



Forever True Week

From writing thank you notes to donors to sharing why they're "Forever True" and learning how philanthropy impacts nearly every corner of Iowa State's campus, students helped make our annual Forever True Week event, held this past April, a success. A special performance by the ISU Marching Band was the icing on the cake.

