

SPRING 2018



Putting Clean Water Within Reach

Residents of Ullo, a dusty village in northwest Ghana, Africa, face nine months of drought annually.

During the dry season, children may get only a cup of drinking water a day, often walking miles for it. Teachers struggle to teach pupils distracted by thirst.

The Iowa State chapter of Engineers Without Borders aims to ease this drastic situation by developing a

The people of Ullo taught me empathy, which has greatly expanded my education during my adventure at lowa State. water system that provides the village with enough water for the entire year.

"We visited Ullo in December to find potential drilling sites using an electrical resistivity device," says Kevin Prince, a senior in civil/environmental engineering from Omaha, Nebraska, and the project's team leader. "Early data is promising, and we will return this year to continue the work. There is real hope for this system."

Founded in 2008, the chapter has also worked in Mali and Belize. These projects provide students realworld engineering problem-solving while working with international organizations.

"We're using skills learned in the classroom to do good around the world," says Will Parr, a junior in software engineering from Dallas, Texas, who leads the group's fundraising efforts. "Seeing the impact is amazing."







Wash and Wear Electronics

A discovery by an Iowa State University professor and his research group of nanoengineers could lead to washable electronics in textiles and better biological sensors.

A new research paper describes how they're treating printed graphene with lasers to create electronic circuits that repel water.

"We're taking low-cost, inkjet-printed graphene and tuning it with a laser to make functional materials," said Jonathan Claussen, an Iowa State University assistant professor of mechanical engineering, an associate of the U.S. Department of Energy's Ames Laboratory and the corresponding author of the paper recently featured on the cover of the journal Nanoscale.

The nanotechnology "would lend enormous value to self-cleaning wearable/washable electronics that are resistant to stains, or ice and biofilm formation," according to the paper describing the discovery. It could also have applications in microfluidic technologies, drag reduction, electrochemical sensors and technology that uses graphene structures and electrical simulation to produce stem cells for nerve regeneration.

The studies have been supported by grants from the National Science Foundation, the U.S. Department of Agriculture's National Institute of Food and Agriculture, the Roy J. Carver Charitable Trust, plus Iowa State's College of Engineering and department of mechanical engineering.

The Iowa State University Research Foundation is working to patent the technology.

Learn It... Love It... Live It! 74,000 850

students are engaged in lowa State's learning communities to date.

student clubs and organizations mean 850 ways for students to connect with their passion.

Twice the Pomp, Circumstance in Half the Time

Iowa State University split its undergraduate commencement into two ceremonies on the same day this spring, with graduates from three colleges recognized at each. Both ceremonies were held on May 5 at Hilton Coliseum.

The change was announced by President Wendy Wintersteen and proposed by a task force that spent several months studying various options and surveyed the senior class for student input.

The intent of two ceremonies was to provide all graduates with the elements they seek in their graduation day. That includes having their names read as they walk across the stage, seating for an unlimited number of guests, a shorter event and multiple colleges sharing a ceremony so new grads can celebrate with friends.



Photo by Christopher Gannon

95

percent of students go directly from lowa State to jobs or continuing education six months after graduation.

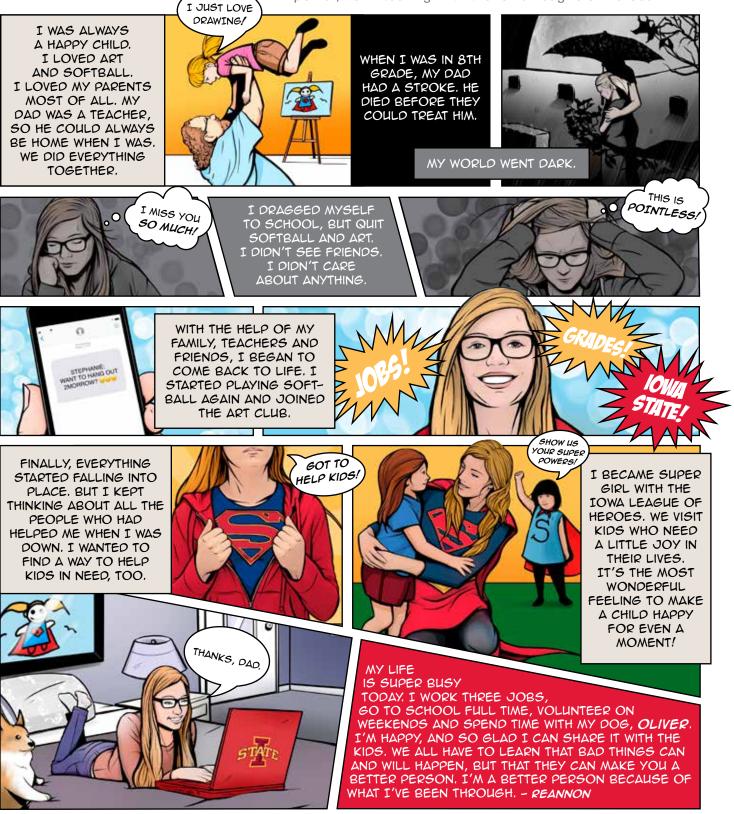
Source: Alliance for Iowa State





Story by Susan Flansburg and Reannon Overbey Illustrations: Toto Manivanh

Reannon Overbey was devastated by the loss of her father when she was in eighth grade. Thanks to friends and family, she regained hope over time. Today an lowa State senior in graphic design with a minor in advertising, and recipient of the Elizabeth Kirke Memorial Award in Graphic Design, Overbey uses her own journey of healing as her super power, volunteering with the lowa League of Heroes.



IOWA STATE UNIVERSITY

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Welcome to YOUR IOWA STATE,

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

OR IOWA

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O WE WILL FIGHT, FIGHT, FIGHT FOR IOWA S AND MAY HER COLORS EVER FLY.

Snap, Crackle and Pop!

Did you know the delicious sweet, sticky Rice Krispies Treat was created in 1939 by Mildred Day, who graduated from Iowa State in 1928? There is a "house" or student residential community in Geoffroy Hall named "Day House" after Mildred. Iowa State University held the Guinness World Records record for the largest treat in 2001 by making one that weighed 2,480 pounds.

Do you have a recipe that puts a new twist on this classic? Share it with us on Facebook or Instagram (@ISUFoundation) by tagging the Iowa State University Foundation in the post, or send your recipe in to ewmiller@foundation.iastate.edu. We will share a few delicious recipes in our next issue and on social media.



