

FALL 2018

Photo: Chris Gannon



From Inquiry to Impact

Sarah Jacobson arrives at the laboratory, dons her white coat and safety glasses, checks the day's notes and starts working.

You might think Jacobson works for a major corporation. She doesn't – at least not yet.

She's an Iowa State junior majoring in chemical engineering, and a member of the Griswold Undergraduate Research Interns program. An experiential learning opportunity for chemical engineering students, Griswold Internships enable students to work alongside faculty and graduate students, contributing to significant scientific work as they gain knowledge about the research process.

Further setting the program apart are seminars introducing students to the process for transferring the innovations created in Iowa State labs to benefit society. Interns learn the

basics of intellectual property, or IP, and of patent, trade secret, trademark and copyright law and practice.

"We are helping these students develop skills as documentarians of their work," which is an important aspect of protecting research and discoveries, says Dennis Vigil, professor and associate chair of chemical and biological engineering.

Jacobson is part of a team led by Balaji Narasimhan, Anson Marston Distinguished Professor and Vlasta Klima Balloun Faculty Chair, that seeks to identify novel biodegradable polymers for nanomedicine and nanovaccine applications.

Both Jacobson and fellow Griswold Intern John Lavey say the IP process has been eye-opening.

Lavey works with Vigil's team on an advanced fluid dynamics project aimed

A "cool" part of Griswold Intern Sarah Jacobson's experience in the Narasimhan lab is operating an omnirobot and working with doctoral researchers like Adam Mullis.

at growing microalgae that could serve as an alternative biomass resource.

"I now know the importance of protecting the work we are doing," Lavey says. "It's useful to have that mindset, of realizing that your project could become a product" – one that could ultimately impact people's lives.

Jacobson agrees, saying, "Knowing that I'm doing something that possibly hasn't been done before is exciting."

Photo: Chris Gannon



The Secret of Her Socks-cess

Rebecca Lyons knows what it takes to be an entrepreneurial success, and to do so meaningfully. She is a 2018 graduate in agricultural studies, with a minor in entrepreneurial studies. Last year Lyons, a Ryan Pellet Family Scholarship recipient, launched Lunchsox, which sells kooky socks online with names like “vintage retro strawberry” and “rusty Tannenbaum,” with 100 percent of profits going to buy lunches for hungry kids. Here are a few of her tips.

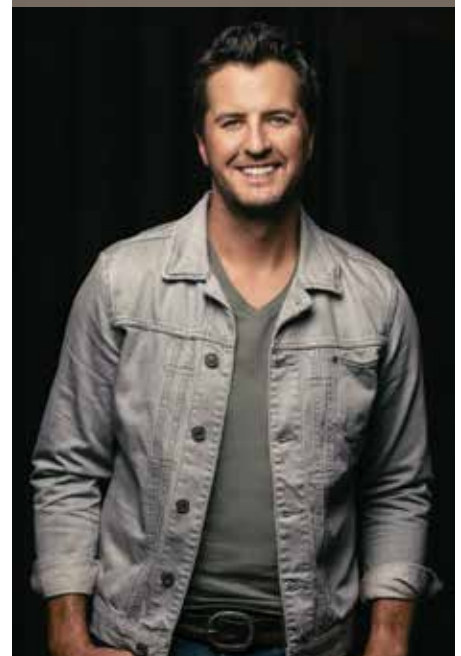
- **Be open to different solutions.** “I was pursuing a concept for an entrepreneurial class that involved an idea I’d had about farming, which I postponed. But I’d been to Zimbabwe on a campus ministry trip and had seen the effects of hunger. I wanted something that was manageable and helped people, and came up with Lunchsox.”
- **Let your ideas evolve.** “In 2017, Lunchsox was able to give more than \$1,000 to the Critical Care Center in Chinhoyi, Zimbabwe. This year, proceeds will go to the school system where I grew up in Clinton, Iowa. More than 50 percent of the children qualify for the school’s public supported lunch program. Lunchsox is partnering with a program called Backpack Buddy, where food is sent home over the weekend, so that kids return on Monday morning with their tummies full and their minds ready to learn.”
- **Be flexible.** “I’m not sure what’s next for me. But while I might not know what I want to be, I do know who I want to be. I want to make a difference.”

To suggest food program partners, go to www.lunchsox.com/our-story.



Country Class

What do Iowa State University and country music sensation **Luke Bryan** have in common? They are both known for their advocacy of agriculture. This spring, Bryan donated \$8,000 in scholarship support to the College of Agriculture and Life Sciences for agriculture students from farming families.



Contributed photo



A 'Mega' Reputation

Iowa State's value to the global seed industry could easily be described as "mega."

The university is home to the Seed Science Center, one of the world's preeminent seed research centers and representing the largest public seed testing laboratory in the world.

Last year, Iowa State's international reputation grew when it became a partner in the Seed Research and Technology Business Center and Mega Seed Park in Andhra Pradesh, a state on India's southeastern coast.

The partnership will improve access to quality seed and promote seed entrepreneurship and trade through science-based policies and regulations.

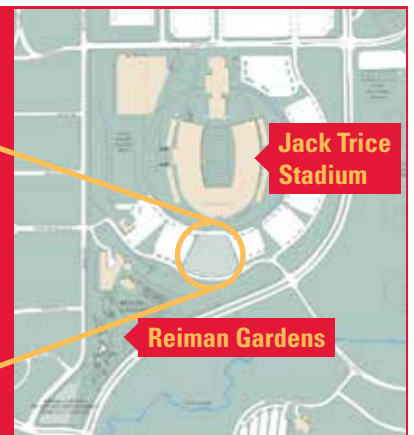
Bill Gates, co-chair of the Bill & Melinda Gates Foundation, has praised the project, noting that it "will drive innovation, not only for higher yielding crops, but also for varieties of regional importance."



Illustration: Gwen Keraval

Green Space South of Football Stadium

Newly updated green space at Jack Trice Stadium is part of a multiphase plan to increase the stadium's capacity. The new park-like plaza is immediately south of the Sukup Endzone Club and links the stadium to Reiman Gardens. A portion of a gift from Roy and Bobbi Reiman in 2014 is funding the plaza.



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

- From Inquiry to Impact
- The Secret of Her Socks-cess
- Country Class
- A 'Mega' Reputation
- Green Space South of Football Stadium

FOREVER
TRUE
FOR IOWA STATE

Forever True, For Iowa State Campaign Reaches Initial Goal, Increases Target

The *Forever True, For Iowa State* campaign has achieved unprecedented success raising \$1.1 billion two years earlier than anticipated and is extending its challenge with a new target of \$1.5 billion.

"The momentum and energy our Cyclone family has created through its generosity has led to unprecedented success," said Iowa State University President Wendy Wintersteen. "While we've met our campaign goal, our work is not yet done, because there are still needs to be met, and ideals and aspirations to champion."

In addition to increasing the target by \$400 million over the original goal, the campaign will be extended a year to June 30, 2021. With a name inspired by the Iowa State Fight Song, the *Forever True, For Iowa State* campaign is rallying support for scholarships, faculty support, facilities and programs.



A View to Forever True

All it takes is a pop-up photo booth and an Instagram frame at an Iowa State home game for enthusiastic Cyclone families to step up and show they are *Forever True, For Iowa State*. Follow us on Instagram @isufoundation and find more images at #ForeverTrueISU