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## **ABE Alumni E-News | Summer Edition | July 31, 2016**

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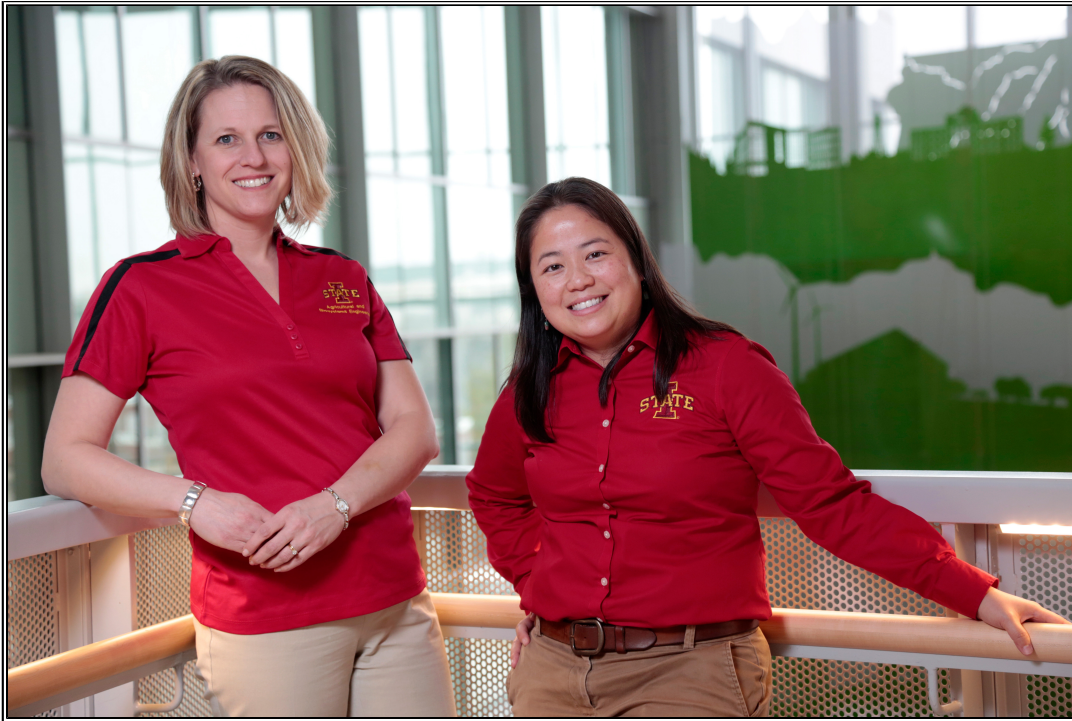
### **Iowa State University researchers receive \$1 million grant to study antimicrobial resistance in animal production**

An interdisciplinary team of researchers at Iowa State University has received a nearly \$1 million grant to study antimicrobial resistance in animal production systems. The three-year grant from the U.S. Department of Agriculture's National Institute of Food and Agriculture will allow ISU researchers, along with personnel at USDA and Grinnell College, to advance the technological tools used to detect antimicrobial resistance and form strategies to slow its spread.

Antimicrobial resistance develops when harmful organisms such as viruses, bacteria and fungi no longer respond to medications used to combat them. Antimicrobial resistance poses a growing threat to the health of both humans and animals, said Adina Howe, an assistant professor of [agricultural and biosystems engineering](#) and the principal investigator on the grant.

"It's a real global threat to public health," Howe said. "Infections will persist and spread if the treatments we have stop working."

For the full story, [click here](#).



**Photos: Flume Demo (L) & FSMA Training (R)**



**Team collects hardware at 2016 1/4-Scale Competition**



**Video: Spring 2016 Senior Capstone**



Video by Jared Calvert

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### **Making an impact - ABE research and extension highlights**

**PI: Kurt Rosentrater**

Award Amount: \$36,000

Title: Assessing the efficacy of novel preservative for ethanol coproducts

**PI: Mark Hanna**

Award Amount: \$15,083

Title: Anhydrous ammonia distribution with prototype additive injections

**PI: Michelle Soupier**

**COI: Dan Andersen**

**COI: Adina Howe**

Award Amount: \$251,549

Title: Effect of manure application timing and management on the persistence and transport of antibiotics and antibiotic-resistant bacteria in corn and soybean production systems

**PI: Dirk Maier**

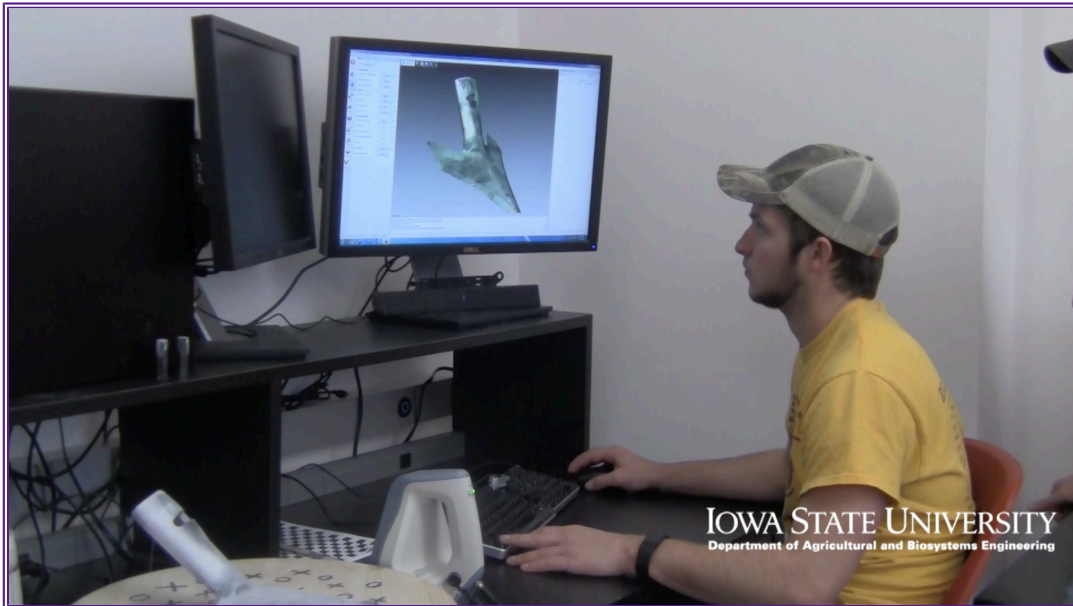
**COI: Charlie Hurburgh**

Award Amount: \$88,698

Title: Cochran program for eastern Europe and Eurasia-grain logistics to increase efficiency and decrease technical barriers to trade in Ukraine

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### **Video: 3D scanning research**



Video by Jared Calvert

### **Buchele authors book on the cotton gin**

Wesley Buchele, professor emeritus of agricultural and biosystems engineering, has co-authored a book titled [“Who Really Invented the Cotton Gin? Unraveling the Mystery and Folklore of a Critical Agricultural Innovation.”](#) Before retiring in 1989, Buchele taught farm machinery design for 43 years. He holds 23 patents, including the rotary threshing and separating cone-cylinder used in all modern rotary grain combines, and the large round baler. Early in his professional life, Buchele spent three years research cotton mechanization in the Mississippi Delta.

### **In memoriam**

[Andrew James "A.J." Benjamin](#) ('06 agricultural engineering), 33, of Dunlap, died July 21.

### **ABE Alumni in the news**

- [Ag engineering alum treks across Illinois at record pace](#)
- [AST alum plans new grazing system](#)
- [ITec alum promoted to CEO of Toro](#)
- [ABE alum selected as NMSU dean of College of Agricultural, Consumer and Environmental Sciences](#)
- [ITec alum named new Edinboro University president](#)
- [AST alum announced in Kent Corporation personnel move](#)
- [ITec grad named CALS Young Alum of the Month](#)

## More ABE news

- [ISU faculty, staff and students win big at ASABE in Orlando](#)

## E-News schedule

ABE Alumni E-News is published on a quarterly basis. The next issue will be published October 31, 2016. If you have news items or event dates to include, please send them to Dana Woolley by October 15.

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ABE @ ISU is distributed by the Department of Agricultural and Biosystems Engineering.

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