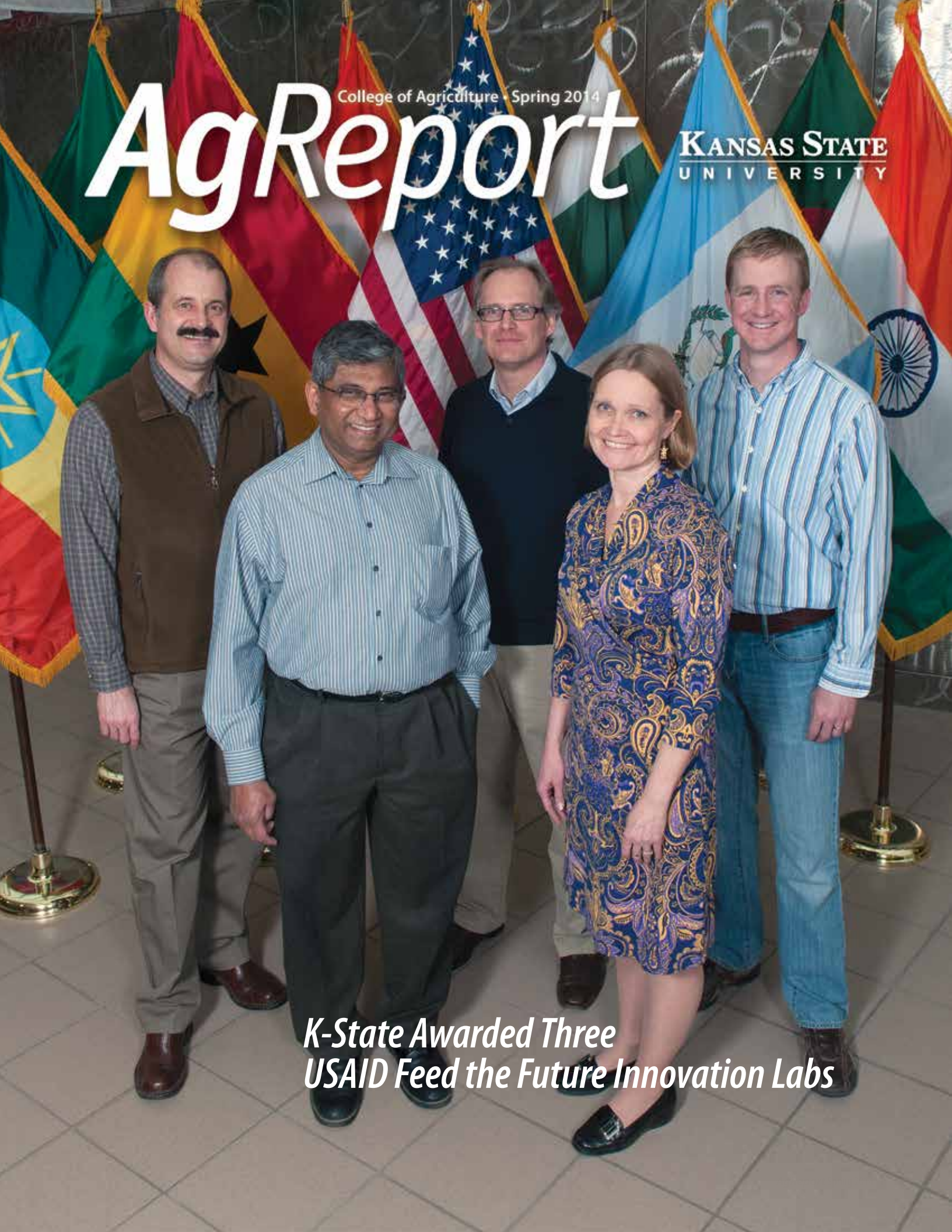


College of Agriculture • Spring 2014

# AgReport

KANSAS STATE  
UNIVERSITY



*K-State Awarded Three  
USAID Feed the Future Innovation Labs*



## From the Dean and Director



John Floros (left), dean of the College of Agriculture and director of K-State Research and Extension, and Bikram Gill, university distinguished professor of plant pathology, acknowledge the establishment of the Bikram S. Gill Chair in Wheat Genetics.

As the spring semester winds down, I would like to share a few of our exciting accomplishments.

President Kirk Schulz recently announced the university-wide initiative on global food systems to meet the needs of a growing population using less land and fewer natural resources. The College of Agriculture and K-State Research and Extension play a huge role in the success of this initiative.

We have a national and — in some cases international — reputation in crop improvement and crop disease prevention and protection; animal agriculture; environmental issues, especially those related to water quality and quantity; food and feed safety efforts; and agribusiness expertise.

Our proficiency in value-added food and agriculture programs enables us to work closely with industry partners to prepare tomorrow's leaders. For example, the new O.H. Kruse Feed Technology Innovation Center allows our students to conduct experiments and work in a world-class feed manufacturing facility.

The U.S. Agency for International Development (USAID) awarded K-State more than \$27 million to establish Feed the Future Innovation Labs for Collaborative Research on

Sorghum and Millet, Applied Wheat Genomics, and the Reduction of Post-Harvest Loss.

In addition, K-State is taking the lead on the first crops center created by the National Science Foundation — the NSF Industry/University Cooperative Research Center Wheat Genetics Resource Center. These agreements involve multiple partnerships with industry, the USDA, and universities in the United States and around the world.

Most importantly, these partnerships integrate well with existing research, teaching, and extension efforts. Undergraduate and graduate students work side-by-side with scientists and faculty on global issues, and the research applies directly to the five grand challenges facing Kansas — global food systems, water, health, developing tomorrow's leaders, and community vitality.

I would like to congratulate our students, faculty, and alumni for their achievements and willingness to share their expertise with others.

John D. Floros  
Dean and Director

# AgReport

Spring 2014

College of Agriculture  
and  
Kansas State University  
Agricultural Experiment Station  
and Cooperative Extension Service

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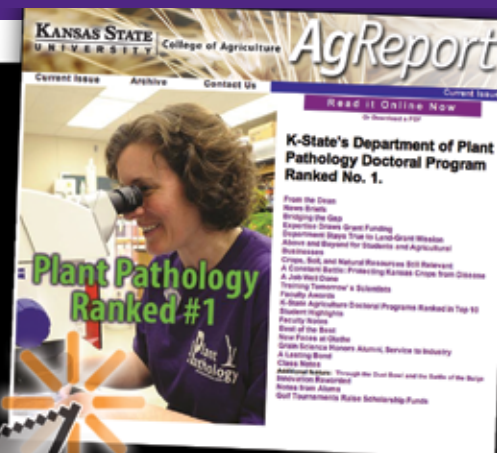
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Dirk Maier, Polamreddy Venkataramana Reddy, Timothy Dalton, and Jesse Poland are directors of the three USAID Feed the Future Innovation Labs recently awarded to K-State. Nina Lilja is director for international agricultural programs. The flags represent countries involved in the labs. More on pages 6-9.

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[www.ksre.ksu.edu/agreport](http://www.ksre.ksu.edu/agreport)



## News Briefs



### Making a Difference for Kansans

A new brochure, *Making a Difference for Kansans*, reflects on the successes of K-State's 150-year history and addresses how K-State Research and Extension is working to find solutions for the five grand challenges facing Kansas — global food systems, water, health, developing tomorrow's leaders, and community vitality.

To fulfill its land-grant university mission of research, teaching, and outreach, K-State Research and Extension delivers unbiased information through its statewide network; provides expertise on topics important to Kansas; and establishes local, state, regional, national, and international partnerships to provide Knowledge for Life for all Kansans.

To view the brochure and access videos, features, and other related information, go to [www.ksu.edu/solutions](http://www.ksu.edu/solutions).

### 2013 Master Farmer and Master Farm Homemakers

Six couples were honored as Kansas Master Farmers and Master Farm Homemakers for 2013 at a March 14, 2014, banquet in Manhattan. The couples are identified as leaders in farming and their communities.

The 2013 honorees include:

- Carol (BS '66, MS '69 dairy production) and Jeanie Campbell (BS '69 elementary education), Winfield, Cowley County
- Lee and Pamela Doyle (MS '82 adult and occupational education), Holton, Jackson County
- Randy (BS '78 agricultural economics) and Kim Fritzemeier (BS '79 human ecology and mass communications), Stafford, Stafford County
- Neal (BS '75 feed science and management) and Clare Galle (MS '94 special education), Moundridge, McPherson County
- Phillip (BS '69 agricultural economics) and Sharron Knox (BS '69 human ecology), Brewster, Thomas County
- Russ and Sandra Sylvester, Ottawa, Franklin County

The program began in 1927 and is sponsored by K-State Research and Extension and *Kansas Farmer* magazine.



### Interns Motivate Kids, Families in Bilingual 4-H Program

K-State students Ruddy Yáñez and Alejandra Romero spent last summer working as interns for K-State Research and Extension, putting together a pilot 4-H program for Hispanic families in southwest Kansas.

The program's goal was to have 30 kids participating in one bilingual 4-H club in Garden City. By summer's end, Yáñez and Romero were leading 90 kids in four bilingual clubs in Garden City, Cimarron, and Lakin. And, there was a waiting list of more than 100 others wanting to join.

"As Hispanics, it's important to always have the whole family together," Yáñez said. "Family is what brings our culture together, so for the success of the program, we invited the entire family."

All of the kids in the program spoke English and Spanish well, but very few of the parents were fluent in both languages. Romero said it was particularly important that she and Yáñez were bilingual.

To watch a video about the program, go to <http://goo.gl/Tt8TGz>.

## Aquifer Team Wins Prestigious Award



The Ogallala Aquifer Program team won the 2013 U.S. Department of Agriculture Secretary's Honor Award in the category of enhancing economic vitality and quality of life in rural America. The award is the most prestigious departmental honor given by the secretary.

The team formed 10 years ago to find water-saving solutions to preserve the Ogallala Aquifer and rural economies in states overlying the aquifer.

Team members include researchers from the departments of Agronomy, Agricultural Economics, Animal Sciences and Industry, Biological and Agricultural Engineering, Civil Engineering, and the Western Kansas Agricultural Research Centers; USDA/ Agricultural Research Service; Texas Tech; Texas A&M; and West Texas A&M universities

According to the most recent U.S. Census of Agriculture, eight Kansas counties overlying the Ogallala Aquifer — Scott, Haskell, Finney, Gray, Grant, Ford, Wichita, and Seward — together sold more than \$4.7 billion in crops and livestock. That represents about one-third of total agricultural revenue for the entire state.

Watch videos promoting the departments of Agronomy and Grain Science and Industry at these sites:  
[www.agronomy.k-state.edu](http://www.agronomy.k-state.edu)  
[www.grains.k-state.edu](http://www.grains.k-state.edu)



Marsha K. Landis

### K-State Earns 2013 Tree Campus USA Recognition

By meeting the five core standards for sustainable campus forestry, K-State was named a 2013 Tree Campus USA. The national program, launched in 2008 by the Arbor Day Foundation and Toyota, honors colleges and universities and their leaders for promoting healthy trees and engaging students and staff in the spirit of conservation.

The requirements were to establish a tree advisory committee, develop a campus tree-care plan, dedicate annual expenditures for its campus tree program, hold an Arbor Day observance event, and sponsor a student service learning project.

The photo above, taken on Arbor Day, April 26, 2013, shows arboriculture students and members of the Alpha Kappa Alpha Sorority planting a Northern Red Oak — donated by Blueville Nursery — near Holtz Hall. Four students in Associate Professor Cathie Lavis' arboriculture class — Lexi Wingerson and Matt McKernan, horticulture, and Adam Bangerter and Wes Haid, landscape architecture — serve on the committee. Lavis (MS '93 horticulture, PhD '05 agronomy) is shown far left in the photo.



Professor Shannon Washburn, from left, invited Virginia and Bob (BS '54 agricultural education, MS '65 adult and occupational education) Schneider, Crossville, Tenn., to share their teaching experiences in Nigeria and the United States with students in the Leadership and Professional Development in Agricultural Education class. The Schneiders made a gift to provide annual scholarships for agricultural education students.





Bikram Gill stands beside wheat genetic samples in the climate-controlled storage facility in the Kansas Wheat Innovation Center.

the University of Kansas and K-State faculty earned a grant in 2009 from the Kansas Bioscience Authority to found Heartland Plant Innovations, a plant biotechnology company, and Earth's Harvest, a 501(c)3 nonprofit, all to be housed in the Kansas Wheat Innovation Center (KWIC) financed by wheat grower contributions. Its state-of-the-art facilities have become a major hub for wheat research. HPI, WGRC, and General Mills share laboratory space there.

### NSF Center Created

When the WGRC lost its federal funding in 2011, industry partners worked together to secure funding for the valuable resource. They looked to the National Science Foundation (NSF) for help in establishing a wheat research center. Historically, NSF centers are devoted to engineering and electronics.

"The original vision of the center was a collaborative effort among the Kansas Wheat Commission, Earth's Harvest, Heartland Plant Innovations, WGRC researchers, and K-State administrators," said William Zorrilla, who worked with Chumley, Gill, and NSF staff to prepare the proposal.

# Partnerships *Prevail*

Bikram Gill came to Kansas in 1979 specifically to work with wheat. His 35-year career at Kansas State University has been devoted to conserving wheat genetic resources, sharing those resources with the world, and training future scientists.

"Twenty percent of calories consumed by humans worldwide come from wheat," said Gill, university distinguished professor of plant pathology. "I wanted to work on a crop that would make a global difference,"

At K-State, Gill found his dream job and colleagues who shared his passion for wheat genetics research and making the genetic stocks available to the world.

In 1984, the Kansas Board of Regents established the Wheat Genetics Resource Center (WGRC) as a center of excellence at K-State, with Gill as director. The center — with support from the Kansas Wheat Commission and a federal grant — established a repository of wheat genetic materials and made them available to public and private wheat breeders.

### KWIC Formed

Forrest Chumley, former associate director of research; Dusti Fritz, former Kansas Wheat Commission CEO; and other industry partners, working with



Bikram Gill, WGRC director; Jon Raupp, senior scientist; Duane Wilson (BS '76 horticulture), associate scientist; and Bernd Friebe, research professor, have 127 years of combined service to K-State research.

"With the mission of the center clear and our industry network established, the WGRC team (led by Bikram Gill), Earth's Harvest, and grant specialist Terri Fayle submitted the grant."

Their hard work paid off. In August 2013, the National Science Foundation created the Industry/University Cooperative Research Center on wheat — the first NSF-established research center for any crop plant.

Zorrilla, who serves as managing director for the center, appreciated guidance from the NSF I/UCRC program officers.

"The center would not have been awarded without industry participation and buy-in," said Zorrilla.

The NSF I/UCRC Wheat Genetics Resource Center is a partnership between K-State and Colorado State University (CSU), with K-State as the lead institution and Gill as director and Pat Byrne of CSU as co-director.

It focuses on improving the food production and disease resistance of wheat, as well as a training hub for graduate students and young researchers.

### Industry Partner Participation

The National Science Foundation awarded a seed grant to start the research center, with the stipulation that at least three industry partners join and financially back the center.

Collaborators now include the USDA/Agricultural Research Service Hard Winter Wheat Genetics Research Unit; the Kansas Wheat Commission; the Kansas Wheat Alliance; and multiple corporations, including Bayer CropScience, Syngenta, Limagrain, Dow AgroSciences LLC, General Mills, and Heartland Plant Innovations.

K-State departments of Agronomy, Plant Pathology, Entomology, and Grain Science and Industry, as well as the Agricultural Research Center-Hays are involved with the WGRC.

The wheat gene bank moved from Throckmorton Hall to the Kansas Wheat Innovation Center. It was funded equally through an Economic Development Administration federal grant and the Kansas Wheat Commission.

Scientists associated with the NSF center use the gene bank to conduct research on wheat germplasm improvement. It has 20,000 strains of wheat genetic stock from about 24

*"Bikram Gill is the world's foremost expert on wheat genetics and genomics."*

countries, and 5 to 10 percent of the collection is grown each year.

According to Gill, the research center creates unprecedented opportunities for graduate students and postdoctoral researchers to work alongside industry partners and academic scientists, as well as to develop new genetic research that could immediately improve food security and safety.

### Endowed Chair Established

To honor Gill's accomplishments and ensure that his important work

continues, the Kansas State University Foundation established the Bikram S. Gill Chair in Wheat Genetics through gifts from Bayer CropScience, other private industries, friends, and colleagues.

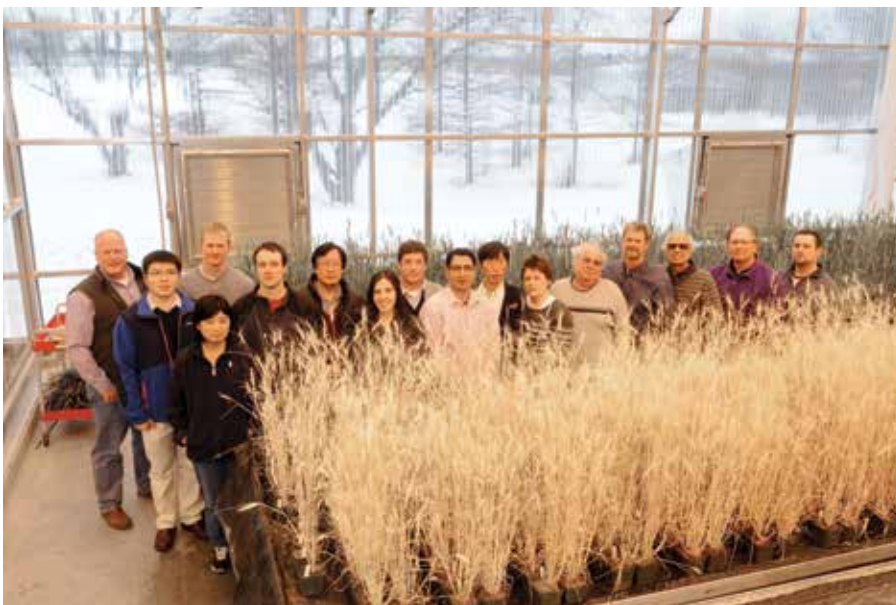
"Bikram Gill is the world's foremost expert on wheat genetics and genomics," said John Floros, dean of the College of Agriculture and director of K-State Research and Extension. "Through his leadership, the contributions of the WGRC have likely impacted every key wheat-breeding program in the U.S. and worldwide.

"This endowed chair will help K-State attract and retain the brightest minds and the world's foremost experts in wheat genetics."

Gill will hold the chair for the last year of his phased retirement in 2017–18. After that, it will be used to recruit his successor.

Gill sees the endowed chair and the new NSF center as ways to build new partnerships and increase the genetic collection.

"As we have more climate change and weather uncertainties, the endowed chair and NSF center will allow high-level research to tackle future problems," Gill said.



The NSF I/UCRC Wheat Genetics Resource Center faculty, research associates, and visiting scientists gathered in a Kansas Wheat Innovation Center greenhouse. From left: Justin Gilpin, CEO of Kansas Wheat; Xu Wang; Jesse Poland; Shuangye Wu; Ryan Steeves; Wenxuan Liu; Lisa Borello, project coordinator; William Zorrilla, NSF center managing director; Sunish Sehgal; Dal-Hoe Koo; Tatiana Danilova; Bernd Friebe; Jon Raupp; Bikram Gill; Duane Wilson; and Josh Sharon.





# Expertise Rewarded

## K-State home to three USAID innovation labs

Kansas State University's standing as a leader in global food systems received a major boost in fall 2013 when the U.S. Agency for International Development (USAID) awarded the university more than \$27 million for three projects that will reduce hunger, poverty, and undernutrition in developing countries.

The three projects — part of USAID's "Feed the Future" initiative — allow K-State Research and Extension to conduct research, education, and outreach in developing countries, and transfer that knowledge to U.S. agricultural practices.

Many believe that K-State's work will help boost agricultural trade globally.

"If you have countries with stronger economies, they will have higher demands for grains," said Dirk Maier, head of the Department of Grain Science and Industry. "To feed nine billion people by 2050, more grain will need to be produced, preserved, and sold for food."

Nina Lilja, director of international agricultural programs, called the competition "fierce" for the USAID work. She helped develop the numerous partnerships, in addition to some of the technical writing, for the grants.

"USAID looked for global leadership in these three areas," Lilja said. "Getting these projects is a big nod for K-State and an opportunity to be recognized as the global center of excellence in these three areas. USAID is making a significant investment, and it's important for us to deliver."

### Leading Center for Sorghum, Millet



### Collaborative Research on Sorghum and Millet

USAID selected K-State Research and Extension as the management entity for a \$13.7 million grant to advance the science of sorghum and pearl millet in semiarid regions of the world. The five-year grant is renewable for an additional five years.

Timothy Dalton, associate professor of agricultural economics, serves





A West African farmer transports harvested sorghum heads to the village for threshing.

as director of the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet, also known as the Sorghum and Millet Innovation Lab.

*"No one has the breadth in sorghum research that Kansas State has."*

Two projects have been awarded to K-State. Crops geneticist Geoffrey Morris will work on accelerating the genetic enhancement of sorghum in West Africa with genomics-enabled breeding. Research on improved crop genetics, production practices, and processing methods for increased productivity and nutrition for smallholder sorghum producers in Ethiopia will be handled by K-State sorghum breeders Tesfaye Tesso and Ramasamy Perumal.

"No one has the breadth in sorghum research that Kansas State has," Dalton said.

"Additionally, we have been a part of the Center for Sorghum Improvement for more than a decade, which gives us the very strongest science base and expertise to tap into when we have questions."

The lab focuses on increasing the resiliency of small-scale producers in

the face of climate change by improving the productivity, disease resistance, agronomy, and value of sorghum and millet crops in Ethiopia, Senegal, and Niger.

Researchers also train scientists in those countries and develop improved crop varieties that will benefit other sorghum-producing countries in sub-Saharan Africa and around the world.

"The overall goal is to improve farmers' productivity with sorghum and millet, which will reduce poverty and hunger," Dalton said. "Additionally, we want to expand value-added product development to increase benefits to consumers, the private sector, and farmers."

Nat Bascom, assistant director for the lab, said the research done in those countries will have the potential for wide-scale impact, including on the U.S. sorghum industry and many western Kansas producers.

"Sorghum and millet are interesting crops for Kansas because, as water becomes more of a scarce resource, we're going to need to look at new models that will provide income and be more adapted to the resources that we have available," he said.

"These crops have seen thousands of years of very harsh environments, yet still provide enough grain for families to survive and thrive. They have been really under-researched."

Work in the three African countries is in partnership with the USDA and more than two dozen universities, national research centers, and

nongovernmental organizations from the United States, Africa, Europe, and Asia.

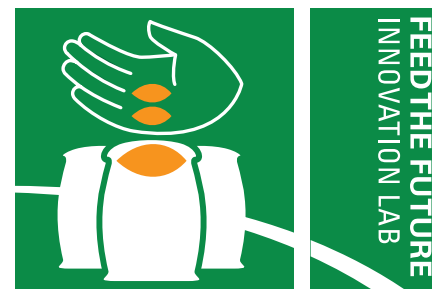
While the research will affect millions of African impoverished farmers and their families, it also presents the opportunity for numerous advances in sorghum genetic enhancement that will positively affect U.S. producers.

"If we can increase the global demand for sorghum, then there is potential to see increases in trade volumes, whether it be in feed, food, or malting industries," Dalton said.

"Our goal is to create a strong value and more robust sorghum economy which, in the end, will benefit farmers, consumers, and the industry as a whole."

For more information visit, [www.ksu.edu/smil](http://www.ksu.edu/smil).

## Reducing Post-Harvest Losses



## Post-Harvest Loss Reduction

K-State received \$8.5 million over five years to establish the federal government's new Feed the Future Innovation Lab for the Reduction of Post-Harvest Loss.

Co-leaders for the lab are Dirk Maier, director of the International Grains Program, and Polamreddy Venkataramana Reddy (MS '82, PhD '96 grain science), who recently retired from General Mills as a global technology platform manager and senior principal engineer.

"As much as one-third to half of the world's harvest is lost every year for a variety of reasons," said John Floros, dean of the College of Agriculture and director of K-State Research and Extension.

"Through this innovation lab, we are working toward solutions that reduce postharvest losses and help preserve greater quantity and better quality food



Polamreddy Venkataramana Reddy (seated) and Dirk Maier serve as co-directors for the Feed the Future Innovation Lab for the Reduction of Post-Harvest Loss.

for the world's growing population. By doing so, we also help reduce the waste of the precious natural resources used to produce our food."

*"As much as one-third to half of the world's harvest is lost every year for a variety of reasons."*

The initial focus is to reduce postharvest losses and food waste for grain and oil seed crops, tuberous root crops, and peanut and legume crops in Bangladesh, Ethiopia, Ghana, and Guatemala.

"A tremendous amount of time and effort is being put into improving crop yields in the developing parts of the world, but then 20 to 30 percent of those crops are lost soon after harvest and before they reach the consumer," Maier said.

"We will research what can be done in an effective manner to decrease these

unacceptably large losses, especially among smallholder and subsistence farmers."

K-State faculty in the departments of Grain Science and Industry, Human Nutrition, and Communications and Agricultural Education developed the grant proposal.

Maier calls it "a powerhouse alliance" with six other U.S. universities, five government and corporate partners, and several universities and organizations in the four countries.

"It's a great honor and responsibility," Maier said. "I think it will spotlight the state and the expertise and capabilities of K-State's faculty, staff, and students as well as those of our collaborators."

For more information, go to [www.reducephl.org](http://www.reducephl.org).

### Improving Wheat's Resilience

USAID awarded \$5 million over five years for K-State Research and Extension to develop wheat varieties that are resilient to the warming effects of climate change. The initial focus will be on wheat in South Asia, which typically produces 20 percent of the world's wheat crop.

Jesse Poland (BS '03 agronomy, MS '04 plant pathology), assistant professor of plant pathology, leads the Feed the Future Innovation Lab for Applied Wheat Genomics. The team includes K-State agronomists and plant pathologists, the International Maize and Wheat Improvement Center (CIMMYT), and Cornell University.

"Globally, wheat production is increasing at a rate of 1 percent annually, but there is evidence of yield



Jesse Poland (right), director of the Wheat Genomics Innovation Lab, and graduate student Sandra Dunckel examine wheat in a Kansas Wheat Innovation Center greenhouse.



Project partners in the Applied Wheat Genomics Innovation Lab examine research plots in Jabalapur, India, February 2014.

Courtesy of Jesse Poland



stagnation in some regions, including South Asia,” Poland said.

“In fact, climate models predict that in tropical and subtropical regions such as South Asia, yield will decrease by 10 percent for every 1 degree rise in temperature. Given current cultivars and production practices, this would likely reduce production levels by 30 percent in these regions.”

A 30 percent drop could prove devastating for people in South Asia and other developing regions, which rely on the wheat crop for not only a source of income, but also their own food, Poland said.

Wheat provides 21 percent of the food calories and 20 percent of the protein for more than 4.5 billion people in 94 developing countries.

“In the developing world, wheat is the primary staple for more than 1.2 billion people and an important food source for 2.5 billion living in poverty, many of whom are living on less than \$2 (U.S.) a day,” Poland said. “And wheat is the primary income source for some 30 million poor wheat farmers and their families.”

The economic benefits likely will be felt back in Kansas and across the United States.

“Over the past two years we have already begun implementation of these advanced breeding methods in the KSU wheat programs through support from the Kansas Wheat Commission and Kansas Wheat Alliance,” Poland said.

“This new project expands this work on a global scale. The improved lines developed through CIMMYT could be

*“Wheat provides 21 percent of the food calories and 20 percent of the protein for more than 4.5 billion people in 94 developing countries.”*

brought back to Kansas as parents with good heat tolerance, and the prediction models developed will further our understanding of selecting for yield under heat stress.”

For more information, go to [www.wheatgenetics.org](http://www.wheatgenetics.org).

# FEED THE FUTURE

The U.S. Government's Global Hunger and Food Security Initiative

## Successful Programs and Experience Will Feed the Future

K-State was the only U.S. university to receive three U.S. Agency for International Development projects in 2013, and only the University of California–Davis has more active USAID projects (four).

Since the 1950s, the College of Agriculture and K-State Research and Extension have been heavily involved in international projects. With expertise in the production, processing, distribution, and protection of food crops and food animals, our objectives align closely with those of Feed the Future, the U.S. Government's Global Hunger and Food Security Initiative.

Current research on drought-tolerant crops, efficient irrigation systems, soil fertility, pesticide and fertilizer use, food and feed safety and security, production systems and financial management, animal genetics and welfare, and grain storage and transportation positions K-State to tackle future food insecurity issues.

Dean and Director John Floros uses the term “sustainable intensification” to describe projects underway in multiple departments. Sustainable intensification offers a practical pathway toward the goal of producing more food with less impact on the environment by intensifying food production while ensuring the natural resource base — on which agriculture depends — is sustained and improved for future generations.



# Sharing Knowledge

Good ideas never go out of style. Since 1868, Kansas State University has been delivering research-based information directly to Kansas citizens.



According to the *History of Kansas State College of Agriculture and Applied Science* by Julius Willard, the Board of Regents passed resolutions in June 1868 to create farmers' institutes by "requesting members of the faculty to visit the more populous parts of the state, and, by lectures on agricultural subjects and free conversation, disseminate information on correct agricultural principles and the aims and character of the college."

## Farmers' Institutes Begin

The first farmers' institute in November 1868 covered "the relation

of the college to agricultural interests in the state, tree borers, forest tree culture, and the economy of the farm." All still relevant topics. For example, current projects involve preserving the Ogallala Aquifer, addressing insects invading Kansas trees and crops, and improving financial management practices for producers.

Willard wrote, "By 1905 the value of farmers' institutes in the several localities of the State had become so thoroughly appreciated, and demands for assistance from the college on such programs had reached such a volume,

that the Board of Regents employed Mr. John H. Miller to serve as field secretary and organizer of farmers' institutes."

In April 1905, the St. Joseph and Grand Island Railway Co. ran a special dairy train with a lecture car, three exhibition cars for showing dairy apparatus and products, and a Pullman for sleeping.

Later that year K-State President Nichols persuaded the Rock Island railway system to operate a farmers' institute train that covered the entire 1,030-mile system, making 30-minute



stops with concurrent sessions on wheat and corn at 135 stations. It took two weeks to complete the trip. Farmers' institutes were the forerunner of today's extension activities.

K-State's Department of Extension was formed in 1911, with Miller as director. On Oct. 30, 1912, the department was changed to the Division of Extension, and Miller was promoted to dean. H.J. Umberger, namesake of Umberger Hall on the Manhattan campus, became dean in 1919.

### Programs for the People

For many people, 4-H is synonymous with extension. Kansas 4-H started in 1905, and Kansan Otis Hall wrote the national 4-H pledge in 1919. Last year, 65,200 Kansas youth participated in hands-on learning opportunities.

The first Home Demonstration Unit was created in 1914 when Leavenworth County women requested help in food preservation. Nutrition, childhood obesity, and financial management are among topics now addressed by extension family and consumer sciences professionals.

Created in 1931, the Kansas Farm Management Association continues to offer management recommendations for farm families and landowners. The *AgManager.info* website averages more than 70,000 visits by more than 25,000 unique visitors each month.

### Smith-Lever Act of 1914

This year marks the 100<sup>th</sup> anniversary of the Smith-Lever Act, a federal law that provided funding for outreach endeavors at the land-grant universities founded by the Morrill Act of 1862. It was introduced by Senator Hoke Smith of Georgia and Representative A. F. Lever of South Carolina.

The act established the Cooperative Extension Service as a shared partnership among the federal, state, and county levels of government to ensure support from each level.

A centennial celebration in Washington, D.C., on May 7–8, 2014, will acknowledge extension's heritage, while launching its educational programs for the future.

### Building on the Past

When Daryl Buchholz, associate director for extension and applied research, received a copy of the 1922 *Extension Worker's Code*, he was amazed that it still applied to current K-State Research and Extension programs.

"The foundation and principles of taking knowledge to the people are as relevant today as when the Cooperative

#### THE EXTENSION WORKER'S CODE 13

##### Do More Than "Get By"

It is really a sad state of affairs to see a worker drifting along, doing just what is necessary "to get by," because in every case it is just a question of a comparatively short time until such a person will be relieved of his duties.

If you are not conscientious and interested in the work, and willing to put your very best efforts into every undertaking, you should find other employment. The slacker will not get far in extension work and the sooner he radically mends his methods the better it will be for him and for the extension service.

##### Have a Vision

It is of paramount importance that every extension worker have a vision. When the work for the year has been mapped out and the calendar of work adapted to it, try to visualize the results which should be obtained. Leave nothing undone which might contribute toward success. **No really worthwhile undertaking has ever been carried to a successful completion without careful and definite plans being made in advance.**

##### Keep Your Eye on the Big Things

Everywhere we see workers neglecting the big things to attend to the little. While they are doing some little detail that should be left to a clerk, a stenographer, or an office boy, they lose sight of some great advantage which they might have gained—some real problem they might have solved, had they been free to attend to it. No one is great enough to be a leader and at the same time bury himself in details. Either the big things or the little things must predominate; the one is sure to outweigh the other.

Extension Service was created by the Smith-Lever Act in 1914," said Buchholz.

He offered some examples:

*From the 1922 code: No really worthwhile undertaking has ever been carried to a successful completion without careful and definite plans being made in advance.*

"This statement directly relates to our strategic planning for Vision 2025, and K-State Research and Extension's important role in making Kansas State University a top 50 research university."

*It is better to specialize on a few problems, making them an outstanding success, than to spread out over the whole field of extension work . . .*

"We have identified five global challenges facing Kansas — global food systems, water, health, developing tomorrow's leaders, and community vitality. K-State Research and Extension programs address issues that affect all Kansans."



The soil improvement train stopped in Pittsburg, Kansas, 1926

New facility offers industry experience for students

# Training Leaders

The fourth building in the Grain Science and Industry North Complex, the nearly 160-foot O.H. Kruse Feed Technology Innovation Center, adds an impressive new feature to the Manhattan skyline. Students, faculty, and industry professionals toured the center during the Oct. 11, 2013, dedication and ribbon-cutting ceremony.

Located north of Bill Snyder Family Stadium, the \$16 million facility replaces two older campus feed mills — one in Shellenberger Hall and the other at the corner of Kimball and Denison on the site of the National Bio and Agro-Defense Facility (NBAF).

“From an educational standpoint, I believe this is going to give us the opportunity to train the next leaders of the feed industry,” said Charles Stark, coordinator for the new center. “The next generation will have an opportunity to come to Kansas State University, learn the feed manufacturing process, and transfer those skills back into the industry.”

As a joint project between the departments of Grain Science and Industry and Animal Sciences and Industry, the center offers industry experience for students in several majors. Stark, who has K-State degrees in both animal science and grain

science, serves as the university’s Jim and Carol Brown associate professor in feed technology.

Cole Rickabaugh, senior in feed science and management and president of the Feed Science Club, spoke during the dedication ceremonies. He works about 20 hours a week in the feed mill.

“The O.H. Kruse Feed Technology Innovation Center gives students an opportunity to see both the integrated and commercial side of feed manufacturing and to conduct new experiments to improve the feed manufacturing industry,” Rickabaugh said. “The goal is to have every feed science student work at least one semester in the new mill.”



Ribbon-cutting photo (left to right) Kara Schwarzkopf, Block and Bridle Club president; Ken Odde, head of the Department of Animal Sciences and Industry; John Floros, dean of the College of Agriculture and director of K-State Research and Extension; Dirk Maier, head of the Department of Grain Science and Industry; Rob Sheffer, managing director for Cargill; Ron Kruse, owner and CEO of Western Milling LLC; Kirk Schulz, K-State president; Dale Rodman, then-Kansas secretary of agriculture; Tony Simpson, Kansas Bioscience Authority managing director; April Mason, K-State provost and senior vice president; and Cole Rickabaugh, Feed Science Club president.



Molly Doyle, a senior in feed science and management from Alto, Mich., has been accepted into the K-State College of Veterinary Medicine to become a large animal veterinarian.

"My feed science background provides insight into the importance of animal nutrition and will allow me to be an effective communicator between producers and manufacturers," Doyle said.

The Cargill Feed Safety Research Center within the O.H. Kruse Feed Technology Innovation Center gives students access to research projects on developing higher quality and safer feed for livestock.

"As the world's population continues to grow along with global increases in middle income, this will move more diets from a plant protein to an animal protein diet," said Rob Sheffer, managing director for Cargill.

"With this shift comes the increased need for safe, affordable food. We at Cargill believe this starts with quality feed processes and safety. Partnering with K-State to provide a center where



Feed science and management students (from left) Cole Rickabugh, Molly Doyle, and Wyatt Ross work in the control room of the O.H. Kruse Feed Technology Innovation Center.

expertise in feed safety and research can be done is a great start to help feed the growing needs of the world in a safe, affordable manner."

K-State is the only university in the United States that offers bachelor's degrees in feed, baking, and milling

science and management. The Department of Grain Science and Industry now offers minors in bakery science, feed science, and grain handling operations as stand-alone minors through distance education.



Ron Kruse, left, accepts a plaque commemorating the mill dedication handmade by Keith Behnke, professor emeritus of grain science and industry and project manager of the feed mill planning team.

## The Story Behind the Name

The O.H. Kruse Feed Technology Innovation Center was made possible by the support of people and organizations dedicated to bettering the future of the feed industry.

One of those is Ron Kruse, owner and CEO of Western Milling LLC, who donated the first \$2 million toward the center's construction.

"We've had a lot of graduates from Kansas State work in our organization, and they've

been very helpful and innovative in making our company a success," Kruse said. "In my mind, Kansas State has done a better job than anybody in the country in educating people in our industry. Because of that, it was simple for me to decide to make a significant donation to this project."

Kruse (BS '62 feed science and management) said his family is especially proud of their

support for the facility named for his father, Otto Henry Kruse.

"My father was a dedicated man who embraced free enterprise and had vision that brought about a big change in the feed industry, or at least on the West Coast, where he introduced bulk feeds and the delivery of feed in bulk to customers," Kruse said.

In the early 1950s, the American Feed Manufacturing Association approached O.H. Kruse about donating money to establish a feed technology program at K-State.

Ron Kruse remembers his first trip to K-State.

"I was in high school at the time, and I was really impressed," he said.

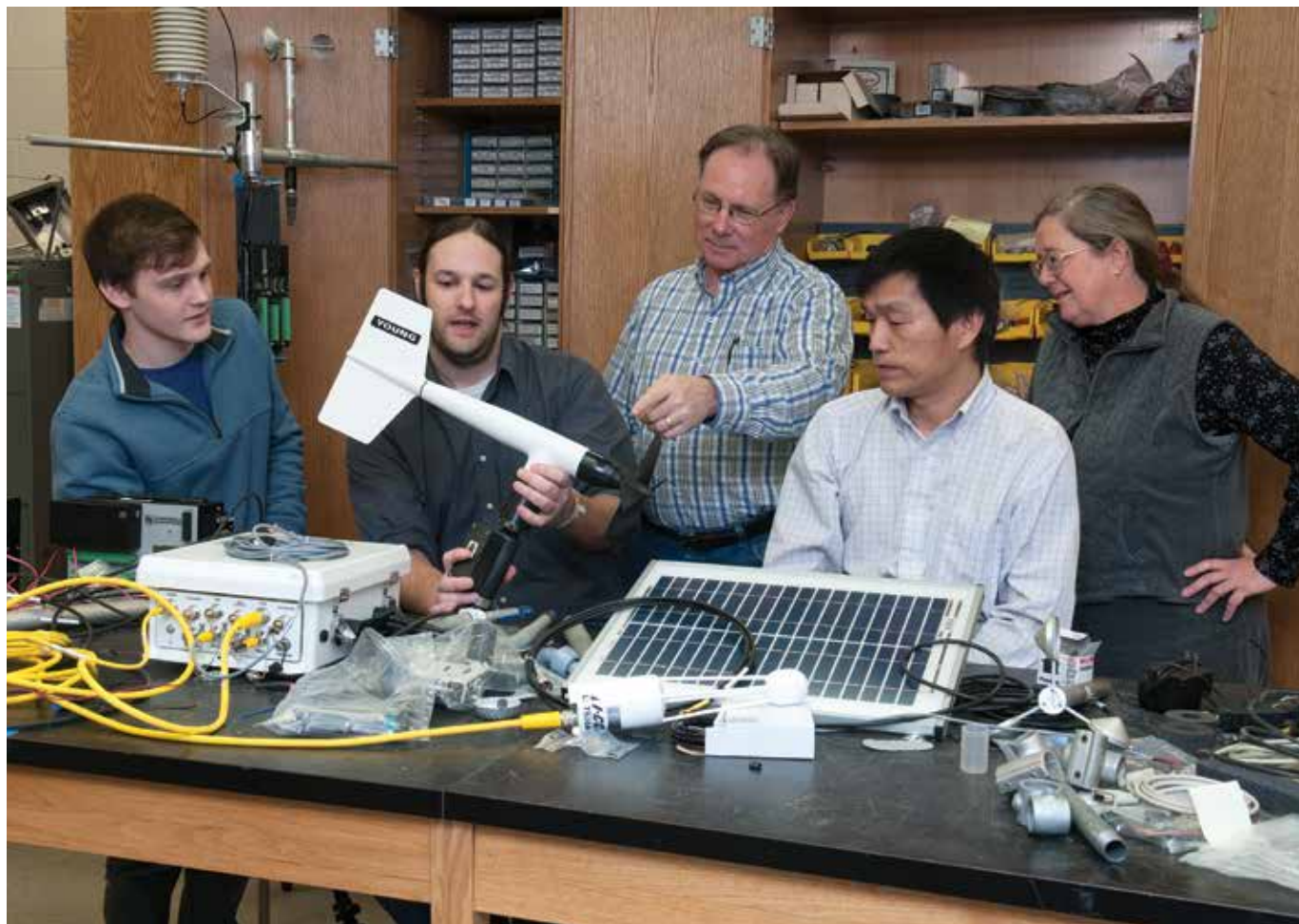
Several years later, he toured the K-State feed mill in Shellenberger Hall.

Although he had seen California feed mills, the equipment in this facility was new and exciting. He said he hopes future students will tour the O.H. Kruse Feed Technology Innovation Center and decide to come to K-State, just as he did.

Ron Kruse's son, Doug, followed his father to K-State, completing a degree in feed science and management in 1988. He now owns and manages Kruse Vineyards and Jack Creek Cellars in Templeton, Calif.

# Weather Matters

Team tracks and compiles Kansas weather data



The Weather Data Lab team inspects a new piece of equipment (from left) Brian Petersen, programmer; Christopher Redmond, WDL manager; Fred Caldwell, weather monitoring specialist; Xiaomao Lin, assistant professor and state climatologist; and Mary Knapp, assistant state climatologist.

From Tribune to Ottawa and Colby to Parsons, in 40 locations around Kansas delicate weather sensors are silently observing wind speed, air temperature, precipitation, and more. The data are being collected by weather stations that feed it to K-State's Weather Data Library (WDL), where they are archived and available to the public.

K-State recently boosted its resources devoted to gathering and recording climate information with plans to establish more weather stations, increase climate-related research and outreach, and provide more usable, accessible information.

The library, based in the Department of Agronomy, recently added Xiaomao Lin, assistant professor and state

climatologist; Christopher "Chip" Redmond, WDL manager; and Brian Petersen, programmer.

Lin, Redmond, and Petersen joined Mary Knapp, assistant state climatologist, and Fred Caldwell, weather monitoring specialist. Knapp focuses on data requests and public outreach, and Caldwell maintains the weather station system.



The changes to Kansas' official repository of weather and climate information paved the way for the Weather Data Library's recent designation as the Kansas Climate Center, making it an American Association of State Climatologists Recognized Climate Office.

### Importance to Kansas

"Climate issues are critical to Kansas," said Gary Pierzynski, agronomy department head. "Weather data are important in efficient irrigation, and we need to make sure we are using our water as efficiently as possible."

*"Accurate weather data is indispensable for a wide variety of our research and extension programs."*

Weather information is particularly important in a state like Kansas, where conditions can quickly go from fair to ferocious and where agriculture is the largest economic driver, accounting for 25 percent of the state's economy.

"Accurate weather data is indispensable for a wide variety of our research and extension programs," said Ernie Minton, associate director for research and technology transfer. "By upgrading our equipment and adding staff, we're enhancing the reliability and accuracy of the data we're gathering, and we'll be able to better respond to Kansans' requests for climatology information, whether it's soil moisture in Pittsburg or air temperature in Hays."

Lin added, "Our goal is to promote understanding of climate sciences in agriculture, natural resources, and environmental areas and to provide online agricultural weather information and ag-climate products for decision-makers in order to improve the economic efficiency and sustainability of Kansas."



Christopher Redmond, left, and Fred Caldwell adjust a weather station near the Manhattan campus.

### Enhancing the system

With the new website, [www.mesonet.ksu.edu](http://www.mesonet.ksu.edu), the public can go online to learn wind speed, temperature, and the precipitation at many of the WDL's weather stations.

Currently, the WDL has two types of weather stations — 3-meter towers, which take fewer weather variables, and mesonet towers (9-meter), which include more weather sensors such as wind speed and direction.

"We're working to standardize the weather stations' configuration, with a goal of upgrading all of them to mesonet," Redmond said.

The WDL gets requests for information beyond agricultural purposes, he added. For example, the Kansas Highway Patrol asked the WDL about weather conditions on a specific date, time (within 15 minutes), and location regarding a recent fatal accident. The library also has historical weather records dating to 1850.

Caldwell covers 26,000 miles a year monitoring and repairing equipment to keep the stream of data over the months and years consistent and accurate.

"We're looking to expand services, including adding value-added products on the website," Redmond said.

### Working with Collaborators

The WDL collaborates with the Kansas Water Office, Big Bend Groundwater Management District, the Equus Beds Groundwater Management District, and the U.S. Department of Agriculture Soil Climate Analysis Network. The data captured by the library is relayed to the National Weather Service and Kansas Agricultural Statistics.

In partnership with Highland Community College, a new station will soon be online in Hiawatha, Redmond said, and another has been installed at the Rock Springs 4-H Center near Junction City. Those are the kinds of collaborations that the WDL team wants to build in the near future as they increase the number of weather stations across Kansas.

"We're looking for more collaborators — public or private," Redmond said. "We want these stations to be more representative of the area around them."

In addition to revamping the website, increasing the number of weather stations, and using weather information for research, plans call for increased visibility for the WDL using social media, Pierzynski said.

## Student Highlights

Ronnie Sullivan, sophomore in agribusiness, Paola, has been named one of 56 Cargill Global Scholars. Participating students from Brazil, China, Russia, India, and the United States receive funds for educational expenses and participate in leadership development and enrichment activities with Cargill leaders.

The spring 2013 *Kansas State Agriculturist*, produced by agricultural communications and journalism students, placed first in the magazine division and top overall publication at the 15th annual Ag Media Summit, a joint meeting of the American Agricultural Editors' Association, Livestock Publications Council, and the American Business Media Agri Council plus the annual meeting of the Agricultural Communicators of Tomorrow. The issue also took second in the student magazine division at the National Agricultural Alumni Development Association awards.

A record 101 companies participated in the Agri-Industry Career Fair January 29 in the K-State Student Union. Student attendance increased by about 17 percent to a total of 450.

Junior Victor Ryu and sophomore Shannon Miskell, both students in food science and industry, and Jordan Green, sophomore in animal sciences and industry, were chosen as K-State Libraries ambassadors.

The K-State Meats Judging Team finished third overall out of 19 teams at the International Meats Judging Contest. Team members include Lane Giess, Courtney Schultz, Miguel Del Toro, Pake Ebert, Jeremy Mock, Elsie Suhr, Allie Hobson, and MaryAnn Matney. Terry Houser and graduate students Aaron Tapan and Garret Dietz coach the team. K-State has finished in the top 3 four years in a row.

Sruthi Narayanan, agronomy doctoral student, received the 2013 Outstanding Graduate Student Award from the Association of Agricultural Scientists of Indian Origin.

Ximena Cibils-Stewart (MS '13 entomology) earned the 2013 Plant-Insect Ecosystems Legends of Entomology Award for Master Student Achievement from the Entomological Society of America. The K-State chapter of the Golden Key International Honor Society honored her as the 2013 Outstanding Graduate Research Assistant of the Year. Assistant Professor Brian McCornack serves as her mentor.

Agronomy graduate students swept the poster competition at the 2014 Great Plains Soil Fertility Conference: Robert Florence, first for "Phosphorus Soil Test Correlation and Calibration with Soybean," and Ray Asebedo, second for "Intensive Management of Wheat Using Sensors. Professor Dave Mengel co-authored both posters. Third place award went to Nate Dorsey for "Genetic Effects on Nitrogen Use Efficiency in Winter Wheat of the Great Plains," co-authored by Nathan Nelson, associate professor; Allan Fritz, professor; and Eric Adee, assistant professor.



The K-State Crops Team captured the national championship for the fifth year in a row and 12 titles in the past 15 years. The team won both the Kansas City American Royal Collegiate Crops and the Chicago Collegiate Crops contests. Individually, K-State completed a rare sweep of the top three places in both contests. Members from left: **Nathan Larson**, Kensington; **Sam Knauss**, Paola; **Morgan Halderson**, Delphos; **Ben Coomes**, Girard; **Jeri Sigle**, Council Grove; **Tyler Herrs**, Linn; assistant coach **Hannah Christen**, Oregon, Ill., and a member of the 2012 team; and coach **Professor Kevin Donnelly**. All team members are agronomy majors except Sigle, who is majoring in agricultural education with a minor in agronomy.



K-State students won the National Collegiate Beef Quiz Bowl Championship Feb. 6 at the National Cattlemen's Beef Association convention in Nashville, Tenn. From left: Ken Odde, department head; Tyler Schultz; Angela Vesco; Kiah Gourley; Chase Miller; and advisor, Karol Fike. Analena Simmons is not pictured.



## Academic-All Big 12



Weston Hiebert, senior in agricultural economics, Canton, earned first team Academic All-Big 12 honors in football.



Courtney Cook, senior in animal sciences and industry, Fremont, Neb., received her first Academic All-Big 12 honor for volleyball. She is one of four Big

12 student-athletes nominated this season with a 4.0 GPA.

College student participation in varsity sports: equestrian – 17, rowing – 15, football – 6, men's track – 5, women's track – 3, and volleyball – 2.



Two agronomy graduate students presented their research at the Capitol Graduate Research Summit in Topeka — Andrew McGowan (shown above) "Impact of nitrogen rate on nitrous oxide emission and life cycle greenhouse gas emission in switchgrass-based cellulosic ethanol" and Megan Brown "Greenhouse gas footprints of two non-legume cover crops following winter wheat."



Agricultural communications and journalism students hosted the National Agricultural Communicators of Tomorrow Professional Development Conference Feb. 6–8. Participants toured the Kansas Wheat Innovation Center and International Grains Program facilities; listened to presentations, including one by Barry Flinchbaugh, professor of agricultural economics; participated in a crisis communication scenario; and attended sessions about future career and educational opportunities in the agricultural communications industry.



## Leadership Legacy Continues

Reagan Kays continued the College of Agriculture legacy of student leadership by being elected student body president for 2013–2014. Kays, a senior in agribusiness, and vice president Cody Kennedy, a junior in secondary education and mathematics, swept the election with nearly 86 percent of the vote. They ran on a three-part platform, "Your Education, Your Passion, Your Life."

Kays and Kennedy start work immediately on implementing their platform issues, which are streamlining tutoring services, increasing communication with all 475 student organizations, and advocating for a medical amnesty law.

Sixteen agriculture students have served as student body president over the last 25 years.

## New Ambassadors Chosen

The college has selected 24 students to serve as ambassadors. They will assist with more than 650 prospective student visits and represent the college and university at various events throughout the year.

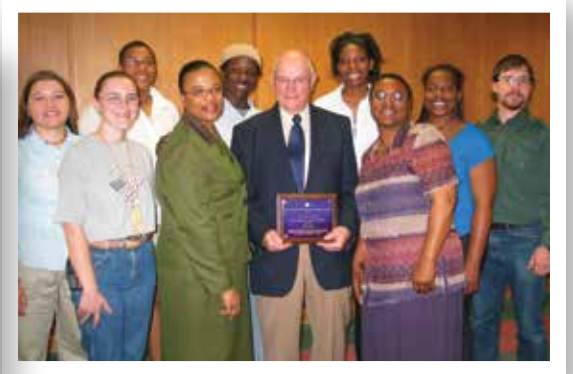
New College of Agriculture ambassadors include: **Elizabeth Allen**, Holton; **Celine Beggs**, Bedford, Iowa; **Linda Bilberry**, Garden City; **Claire Bokelman**, Washington; **Jared Bourek**, Dodge, Neb.; **Carrie Carlson**, Lincolnville; **Cooper Clawson**, Meade; **Zach Cooper**, Stratton, Colo.; **Kenzie Curran**, Farlington; **Blake Foraker**, Burrton; **Karly Frederick**, Alden; **Brooke Jackson**, Arkansas City; **Brett Lynn**, Monmouth, Ore.; **Bailey McClelland**, Bowen, Ill.; **Melissa Miller**, Sedan; **Cheyenne Moyer**, Lincoln, Ark.; **Sophia Pitney**, Abilene; **Chris Reusz**, Downers Grove, Ill.; **Rachel Sahrbeck**, Springfield, Pa.; **Dana Schulz**, Rantoul; **Savannah Stewart**, Valley Center; **Lindsay Upperman**, Chambersburg, Pa.; **Amelia Vasko**, Scott City; and **Anissa Zagonel**, Girard.



# A Decade of Diversity

With support from industry, the College of Agriculture hired Zelia Wiley as the first assistant dean for diversity in the Big 12 and created the Diversity Programs Office in 2003. Here are a few highlights of the last 10 years:

- Created the K-State chapter of Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS).
- Partnered with the colleges of Business Administration and Engineering in the Multicultural Academic Program Success project to prepare incoming students for success.
- Established the K-State Research and Extension Multicultural Summer Research Fellowship.
- Hosted 10 Martin Luther King Leadership Luncheons.
- Presented five Wallace Kidd awards to recognize diversity accomplishments of K-State faculty, staff, and students.
- Offered in-depth Navigating Differences trainings.
- Initiated Cargill College for a Day to educate underrepresented high school students about college.







## Faculty Notes

### Agricultural Economics

Jason Bergtold, associate professor, will model how economic forces, such as crop and fuel prices, influence land- and water-use decisions as part of a three-year \$1.4 million grant from the National Science Foundation's Dynamics of Coupled Natural and Human Systems program to study how human activity and climate change affect Great Plains water systems.

### Agronomy

Awards presented at the Crop Science Society of America (CSSA), Soil Science Society of America (SSSA) and American Society of Agronomy (ASA) international annual meeting: **Guihua Bai**, professor, CSSA Fellow; **James Shroyer**, professor, CSSA Crop Science Teaching Award; **Nathan Nelson**, associate professor, ASA Agronomic Resident Education Award. The team of **Kraig Roozeboom** and **Dorivar Ruiz Diaz**, both associate professors; **Curtis Thompson**, professor; **Doug Jardine**, professor of plant pathology; **Jeff Whitworth**, associate professor of entomology; and **Mark Stadlander**, editor in the Department of Communications and Agricultural

Education — ASA Extension Excellence Award for *Diagnosing Corn Production*.

Professor **Mary Beth Kirkham**, received one of four 2013 Higuchi-KU Endowment Research Achievement awards. The Irvin Youngberg Award for Applied Sciences includes a citation and a \$10,000 award for ongoing research. She is an international authority on the plant-water relations of winter wheat and the uptake of heavy metals by crops grown on polluted soil.

**Dave Mengel**, professor and former department head, received the Meritorious Service Award from the Kansas Soybean Association.

**P.V. Vara Prasad**, professor of crop ecophysiology, earned the Outstanding Senior Scientist Award from the Association of Agricultural Scientists of Indian Origin. He also was named the 2013 International Educator of the Year by K-State's Office of International Programs.

Awards presented at the Weed Science Society of America annual meeting in Vancouver, British Columbia:

**Dallas Peterson** (BS '81 MS '83 agronomy), professor and weed

management specialist, was chosen as president-elect; and **Anita Dille**, professor of weed ecology, received an Outstanding Paper Award as co-author of a published paper in *Weed Science* "Local Conditions, Not Regional Gradients, Drive Demographic Variation of Giant Ragweed (*Ambrosia trifida*) and Common Sunflower (*Helianthus annuus*) Across Northern U.S. Maize Belt."

### Animal Sciences and Industry

**Michael Dikeman** (BS '66 animal sciences and industry, PhD '70 food science) was inducted into the Meat Industry Hall of Fame for his work as a researcher, teacher, and advisor.

**Joann Kouba**, associate professor, earned the Region 7 Excellence in Advising Award – Faculty Role from the National Academic Advising Association.

**Tim Rozell**, associate professor, was named College of Agriculture Faculty of the Fall Semester.

*The Showtimes Jr. Livestock Magazine* inducted **Scott Schaaake**, associate professor and former K-State Livestock Judging Team coach, into its Hall of Fame at the 2014 National Western Stock Show in Denver.



Bhadriraju "Subi" Subramanyam (third from left), mentors graduate students Sarah Byington, Purnima Rai, and Gustavo Correa.

Subramanyam, the Don Wilbur Sr. professor of postharvest protection, received a 2013–2014 Commerce Bank Distinguished Graduate Faculty award for mentoring master's and doctoral students, postdoctoral research associates, as well as visiting scientists.

He specializes in the management of insects associated with stored grain and food and feed processing facilities using alternatives to pesticides. He is recognized nationally and internationally for his expertise and leadership in applying integrated pest management to the protection of dry, durable commodities and their products from the farm to the fork.

He has been the principal or co-investigator on grants totaling more than \$10 million since he came to K-State in 1999.

The award comes with a \$2,500 honorarium and is supported by the William T. Kemper Foundation and the Commerce Bancshares Foundation.



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## Communications and Agricultural Education

**Brandie Disberger**, instructor, was named College of Agriculture Faculty of the Fall Semester.

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## Diversity Programs Office

**Zelia Wiley**, assistant dean for diversity, was one of 22 Fellows of the Food Systems Leadership Institute honored at the annual meeting of the Association of Public and Land-grant Universities in Washington, D.C.

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## Entomology

Professor **Kun Yan Zhu**; **Subramanyam Bhadriraju**, Wilbur endowed professor of grain science; James Campbell and Frank Arthur, USDA Center for Grain and Animal Health Research; and Brian Adam, Oklahoma State University, received a \$500,000 USDA grant under the methyl bromide transitions program.

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## Horticulture, Forestry and Recreation Resources

**Cary Rivard**, assistant professor, and a team of researchers from K-State's Department of Plant Pathology and Division of Biology have been awarded \$158,434 to develop grower recommendations for tomato grafting. The North Central Region Sustainable Agriculture Research and Education Program will fund the three-year project.

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## Kansas Forest Service

**Jim Strine** received the Presidential Field Forester Award for District 9 from the Society of American Foresters. He retired in July 2013 after 35 years as a district forester. **Bryan Peterson** has been hired as forester for the 24-county northwest district.

**Dave Bruton**, district forester, Valley Falls, received the 2013 Kansas Wildlife Federation Forest Conservationist of the Year Award.

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## Northwest Area Office

**Sandy Johnson**, livestock production specialist, represented K-State on the Beef Reproduction Task Force, which earned the 2013 Partnership Award from the National Institute of Food and Agriculture for providing leadership and consistency in reproductive programming to the U.S. beef industry through Cooperative Extension System efforts. Other partners include Iowa State University, South Dakota State University, University of Florida, University of Idaho, University of Missouri, and University of Nebraska.

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## Plant Pathology

On Feb. 26, President Kirk Schulz recognized the department for being ranked the No. 1 plant pathology department in the nation by the U.S. National Research Council. Every year the department brings in three to four times more grant money than it receives from the state of Kansas to support operations, and faculty members have helped build the department's notoriety for research excellence as they moved through their careers, Schulz said.

**Doug Jardine**, professor, was named a Fellow of the American Phytopathological Society.

**Christian Cruz** (PhD '13), postdoctoral researcher, earned a \$30,000 Rotary Global Grant scholarship to conduct research on the prevention of wheat blast in conjunction with Asociación de Productores de Oleaginosas y Trigo, K-State, and Universidade Federal de São Carlos. His research will take him to Bolivia and Brazil. Cruz is from Ecuador.

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## Southwest Research-Extension Center

**Jonathan Aguilar** was one of six K-State assistant professors named a Big 12 Faculty Fellow for scholarly activities in teaching, research, and service.

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## Southeast Agricultural Research Center

Professor **Dan Sweeney** was named a Crop Science Society of America Fellow. He holds the distinction of also being a fellow of the American Society of Agronomy and the Soil Science Society of America.

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## In Memoriam

**Christine Buchanan**, Hutchinson, 85, died Oct. 11, 2013. She and her husband, Thomas, ran the weekly Washington County News in Washington from 1959 to 1981. She then worked as an editor for K-State Extension News until her retirement in 1996.

**Evan Crumbaker**, 91, Wamego, died Feb. 8, 2014. He worked at the K-State Agronomy Farm 1940–1943 and the K-State Artificial Breeding Unit 1973–1985.

**Richard “Dick” Mattson**, 72, Manhattan, died Feb. 23, 2014. He developed K-State's horticultural therapy program in 1969. His research focused on physical, mental, and spiritual benefits of gardening for people of all ages, conditions, and abilities. In the 1990s, he began community gardens including childrens' gardens.

**Dixie Molz**, St. John, 90, died May 4, 2013. From 1953 to 1983, she served Stafford County as a home demonstration agent, home economics agent, and extension home economist.

**John Riley**, 66, Knoxville, Tenn., died Sept. 16, 2013. During his tenure at K-State (1973–1995), he taught agricultural economics and served as assistant director of resident instruction. He was advisor to the FarmHouse Fraternity; coached the National Agri-Marketing Association team, winning several national championships; was named a 4-H All Star; and earned the FFA Honorary State Farmer degree.

# Scientific Society Honors K-State Scientists



Plant pathologist John Leslie addresses Fusarium workshop participants.

The American Association for the Advancement of Science, the world's largest scientific society, has named four K-State faculty members among its 2013 fellows.

John Leslie, university distinguished professor of plant pathology, was recognized for pioneering genetics of *Fusarium*, leading laboratory and scientific writing workshops worldwide, and service as head of the Department of Plant Pathology.

He is one of the world's leading experts on a devastating group of fungi in the genus *Fusarium* that causes billions of dollars in losses annually from plant diseases and can sicken and kill humans and domesticated animals.

In 2000, Leslie pioneered the Fusarium Laboratory Workshop to bring researchers from around the world to K-State to learn about these fungi, the diseases they cause, and the toxic compounds they can produce. In years when the workshop is not in Manhattan, Leslie organizes the workshop with colleagues in such places as Argentina, Australia, Brazil, Italy, Malaysia, and South Africa.

He became head in 2006. Under his leadership, the U.S. National Research Council ranked the department as the No. 1 plant pathology department in the nation, and *PHDS.org* ranked the

department's doctoral program as the best in the nation.

Leslie was a senior Fulbright Scholar at the University of Sydney, Australia, and has been instrumental in forming recent partnerships with Australian universities.

John Reese, professor of entomology, was honored for contributions to entomological sciences, particularly in the fields of plant-insect interactions and plant resistance to insects.

Reese joined the Department of Entomology in 1982. He conducts

collaborative research with K-State scientists on the Manhattan campus and research centers across the state on the molecular genetics of aphid-plant interactions, especially the role of aphid salivary gland genes.

Groundbreaking research on the survival of the aphid on its host plant was published in *Proceedings of the National Academy of Sciences*.

Host plant resistance in crop plants reduces the need for insecticides, is relatively compatible with other methods of integrated pest management (IPM), and increases yields.

When soybean aphids were discovered in Kansas in 2002, he began developing a plant resistance program and conducting feeding behavior studies with an electronic monitoring system.

The other fellows — Walter Dodds, university distinguished professor of biology, and Donald Kaufman, professor of biology — have research projects at the Konza Prairie Biological Station partially funded through K-State Research and Extension.

The awards were announced in the Nov. 29, 2013, issue of *Science*, and presented at the American Association for the Advancement of Science annual meeting Feb. 15, 2014, in Chicago.



John Reese inspects aphids removed from a cornstalk.



# Buchholz Earns National Recognition

As a graduate student, Daryl Buchholz realized extension was the right career path for him. He has never wavered from that decision, and his colleagues across the nation are thankful.

Buchholz (PhD '80 agronomy), associate director for extension and applied research at Kansas State University, was honored with the National Epsilon Sigma Phi Distinguished Service Ruby Award, the highest award granted in extension nationwide.

He recently chaired the Extension Committee on Organization and Policy, which represents 75 extension systems. In that position, he was instrumental in planning the May 2014 national centennial celebration of the Smith-Lever Act, a U.S. federal law enacted in 1914 that established the Cooperative Extension Service.

In his acceptance speech for the Ruby Award, Buchholz said this anniversary can be a reminder of why extension exists. He said he has a positive outlook for the future, as there will always be a need to provide nonbiased, research-based information to people focused on improving their lives.



Daryl Buchholz (right) hosted extension representatives for a national meeting. This photo was taken during a tour of the Flint Hills Discovery Center.

"I do believe that the future of K-State Research and Extension is extremely strong," Buchholz said. "It requires us to remain focused on our audiences, to keep our ears open to knowing and understanding the problems they face, and coming

back with the kinds of education and opportunities people value."

As he looks to the future, Buchholz stresses the need to find practical solutions to the five grand challenges facing Kansas — global food systems, water, health, developing tomorrow's leaders, and community vitality.

In addition to Buchholz's award, these K-State Research and Extension staff also were recognized at the Galaxy Conference sponsored by the Joint Council of Extension Professionals Sept. 16–20, 2013, in Pittsburgh, Pa.

**National Epsilon Sigma Phi:** Stacey Warner, operations leader, Administrative Leadership; **Tranda Watts**, multicounty specialist, regional Chapter Distinguished Service; **Debra Bolton**, southwest area specialist, regional Early Career Service.

**National Association of Extension 4-H Agents:** Ann Religa, Harvey County, Meritorious Service; **Evelyn Neir**, State 4-H Office, and **Karla Hightower**, Miami County, Distinguished Service, Kansas; **Corinne Patterson**, Lyon County, and **Kaitlyn Peine**, Douglas County, Achievement in Service; **Lisa Garrison**, Shawnee County, National Salute to Excellence Volunteer of the Year; **Mildred Waldren**, Greeley County Lifetime Volunteer; **4-H Marketing Team**, Communicator Award — Promotional Package.

**National Extension Association of Family and Consumer Sciences:** **Tranda Watts**, multicounty specialist, regional Extension Educator of the Year; **Robin Eubank**, Barber County, first regional and national, ACI Clean and Healthy Families and Communities; Northwest Area Full Circle Team (**Tranda Watts**, **Libby Curry**, northwest area; **Melinda Daily**, Sunflower District; **Cynthia Dixon**, Rawlins County; **Diann Gerstner**, Thomas County; **Amy Lorenzen**, **Jen Schoenfeld**, Golden Prairie District; **Anna Muir**, Phillips-Rooks District; **Kathy Lupfer-Nielson**, **Nadine Sigle**, Post Rock District; **Julianne Shoup**, Twin Creeks District; **Linda Beech**, Ellis County; **Glenna Clingingsmith**, Northwest Kansas AAA; and **Glen McNeil**, Fort Hays State University), first in region, Human Development/Family Relationships; **Barbara Ames**, Wildcat District, first in region; **Elizabeth Brunscheen-Cartagena**, Sedgwick County, first regional (multistate) and third national, Communications — Newsletters; **Chelsea Richmond**, Flint Hills District, second regional,

Communications — Written Press Releases; **Elizabeth Brunscheen-Cartagena**, Sedgwick County, first regional and third national; and **Cindy Williams**, **Nancy Nelson**, Meadowlark District; **Kathy Tharman**, Doniphan County; and **Diane Nielson**, Atchison County, second regional, Communications — Television/Video.

**National Association of County Agricultural Agents:** **Sandra Wick**, Post Rock District, Distinguished Service; **Dewayne Craghead**, Hodgeman County, Distinguished Service; **Jeanne Falk-Jones**, Northwest Area, national winner, "Search for Excellence in Crop Production," national finalist, Communications — Audio Recording, and Achievement; **Chris Petty**, Graham County, Achievement; **Carla Nemecek**, Southwind District, regional winner, Excellence in 4-H; **Chuck Otte**, Geary County, national finalist, Communications — Bound Book. NACAA officers: **Richard Fechter**, Rolling Prairie District, secretary; **Chuck Otte**, policy committee chair.

## Class Notes

### '70s

**Lee Borck** (BS '70 agricultural economics) was honored as Stockman of the year at the 44th Annual Stockmen's Dinner on March 6.

**Robert Ebert** (BS '70 animal science) was named Father of the Year by the Alabama Cattlewomen's Association. As an Auburn University and Alabama Cooperative Extension System specialist, he was responsible for the 4-H/youth livestock programs in Alabama. He retired Dec. 31, 2013.

**Janice Earl** (BS '71 animal science) retired from the American Kennel Club as an approved dog judge in 2013 and moved from Missouri to Florida.

**Jeffrey K. Schmidt** (BS '77 agronomy) worked for the Natural Resources Conservation Service for 34 years in Anthony, Lacrosse, Elkhart, and Liberal. He retired in Fredonia.

### '80s

**Karol Lohman** (BS '80 animal science) is an agriculture and natural resources agent for K-State Research and Extension – Leavenworth County. She worked previously as the general manager for St. Francis Mercantile Exchange Cooperative in St. Francis.

**Cathy Bandyk** (BS '82, MS '86, PhD '99 animal science) recently accepted a technical sales and support manager position with Westway Feed Products. She and husband **Kim** (BS '82 agronomy) live in Morrilton, Fla.

**Kurt Dillon** (BS '86, MS '91 agricultural education), state FFA advisor with the Kansas Department of Education (KDE) and agricultural education state supervisor, accepted a Teach Ag Champion recognition at the National Association of Agricultural Educators. The award for Kansas Team Ag Ed — which includes K-State, KDE, Kansas Association of Agricultural Educators, Kansas FFA, and the Kansas FFA Foundation — recognizes work to ensure a quality supply of agriculture teachers.

### '90s

**David Sjeklocha** (BS '90 animal science, DVM '94) received the 2013 Academy of Veterinary Consultants Consultant of the Year Award for outstanding achievements in beef-cattle medicine.

**Dale Helwig** (BS '95 animal science) is the K-State Research and Extension agriculture and natural resources agent for Cherokee County.

**Mark Dikeman** (BS '96 animal science, MS '02 agricultural economics) now serves as extension agricultural economist, coordinator of professional development and training for the Kansas Farm Management Association program.

**Jorge Gattini** (MS '98 agricultural economics) was sworn in Aug. 15, 2013, as Paraguay's new Minister of Agriculture. He has held several positions mostly in the agriculture ministry's marketing department under three agriculture ministers. Allen Featherstone, interim department head, oversaw Gattini's master's thesis, *The Agricultural Financial System in Paraguay*.

**Justin Kastner** (BS '98 food science and industry) is director of the University Honors Program. He continues as associate professor in the Department of Diagnostic Medicine/Pathobiology and co-director of the Frontier program in the College of Veterinary Medicine. He also received an Excellence in Teaching Award from the University Professional and Continuing Education Association central region.

### '00s

**Adam Beel** (BS '00 animal science) is an owner/manager for Beel Brothers. The Beel family ranch received the 2013 Leopold Conservation Award in Nebraska, which recognizes achievements in voluntary conservation and the vital role private landowners play in conservation success.

**Elissa (Good) Mullinix** (BS '01, MS '04 animal science) is a program coordinator for K-State's Division of

Continuing Education. Her husband, **Chris** (BS '96 animal science) coaches the K-State Livestock Judging Team and is an instructor in the Department of Animal Sciences and Industry. They previously taught at Butler Community College.

Videos by Kansas farmer **Derek Klingenberg** (BS '01 agricultural economics), Peabody, are getting millions of hits on YouTube and mentions on agriculture-related websites.

**Matt Douglas** (BS '02 horticulture) and wife Bronwyn run Kistner's Flowers in Manhattan. They were featured in *That's Rural* on Sept. 26, 2013. <http://www.huckboydinstitute.org/p.aspx?tabid=21>

**DeAnn Presley** (MS '02, PhD '07 agronomy) associate professor and extension soil management specialist, has been named a certified professional soil scientist by the Soil Science Society of America.

**Laura Marks** (BS '06 animal science), joined K-State Research and Extension in Dec. 2013 as Dickinson County agriculture and natural resources agent.

**Nathan Hoffman** (BS '07 agricultural economics) is an attorney with Cargill, Inc., working with Cargill Meat Solutions Corp. in Wichita. He and wife Kristen announced the birth of their son Jameson Robert Hoffman on April 26, 2013.

**Jabin Olds** (BS '07 bakery science and management) was recently promoted to director of new product development at Delorios Foods in Utica, N.Y.

**Mary (Geiger) Soukup** (BS '07 agricultural communications and journalism) became editor for *Drovers CattleNetwork* in Jan. 2014.

**Aaron Sawyers** (BS '08 animal science) joined K-State Research and Extension – Comanche County, as an agriculture and natural resources agent. He previously worked for Lohrding Three Bar Ranch in Protection.

**Lakshmikantha "Kantha" Channaiah** (PhD '09 grain science), is director of microbiology for AIB in Manhattan.



## '10s

**Michael Feingold** (BS '13 food science and industry), a Marine Corps reservist and food technologist/food scientist and laboratory manager at Cereal Ingredients Inc., will be featured in the May issue of *G.I. Jobs* magazine. He also earned an Outstanding Continuing Education Student Award from the University Professional and Continuing Education Association central region and the Extraordinary Student Award from the K-State Division of Continuing Education.

## 40 Under 40 Awards

Vance Publishing Corporation presented 40 Under 40 in Agriculture Awards to **Joel DeRouchey** (MS '99, PhD '01 animal science), K-State associate professor of animal science; **Jeffrey DeFrain** (BS '99, MS '01 animal science), research nutritionist for Zinpro Corporation; and **Ty Lawrence** (PhD '02 animal science) West Texas A&M University associate professor. They were selected for their leadership and commitment in advancing the cause to double food production by 2050.

## Kansas Department of Agriculture

College alumni working for the Kansas Department of Agriculture: **Jackie McClaskey** (BS '93 agricultural economics, PhD '14 animal science), secretary of agriculture; **Chad Bontrager** (BS '03 milling science and management, MS '09 agribusiness), deputy secretary; **Jake Worcester** (BS '01 agricultural economics), assistant secretary; **Stacy Mayo** (BS '07 agricultural communications and journalism), trademark program director; **J.J. Jones** (BS '04 animal science), director of marketing; **Beth (Gaines) Riffel** (BS '91 agricultural journalism), director of communications; **Nellie Hill** (BS '12 agricultural communications and journalism), education and events coordinator; **Annarose Hart** (BS '12 agricultural communications and journalism), From the Land of Kansas specialist; **Billy Brown** (BS '10 animal science), agribusiness development

coordinator; **Josh Roe** (BS '03 agricultural economics), economist.

Alumni serving on the 12-member KDA advisory board: **David Foster** (BS '03 agricultural communications and journalism/animal science), dairyman, Fort Scott; **Ron Hirst** (BS '67 animal science), rural economic development professional, Hutchison; **Lindsey (George) Huseman** (BS '06 agricultural education, MS '10 secondary education), agricultural education instructor, Ellsworth; **Greg Peterson** (BS '13 agricultural communications and journalism), agricultural advocate, Assaria; **Jennifer Ryan** (BS '01 agricultural communications and journalism), farmer and rancher, Pratt; **Derek Sawyer** (BS '02 animal science), farmer and rancher, McPherson.

## In Memoriam

**Hobart Boles** (MS '57, PhD '67 entomology), 95, Huntsville, Ala., died Jan. 9, 2014. He worked at Huron College, University of Arkansas, USDA Stored Rice Insects Lab in Houston, and the Stored Products Insects Lab in Savannah, Ga. From 1965 until his retirement, he was a K-State adjunct assistant professor of entomology and researcher at the U.S. Grain Marketing Research Center in Manhattan.

**Albert Davis** (MS '48, PhD '53, agronomy), 91, Spanish Fork, Utah, died June 28, 2013. He taught agronomy at the universities of Alabama and Arkansas. He moved to Pullman, Wash., to work for the USDA Plant Introduction Station until his retirement in 1986. He returned to his home state of Utah in 1995.

**Morris Ewing** (MS '57 dairy production), 87, Tucson, Ariz., died Oct. 30, 2013. He worked for the Kansas Artificial Breeding Service Unit from 1951 to 1958. He was senior dairy sire analyst with American Breeders Service at the time of his retirement.

**George Krause** (BS '49 agronomy), 91, Mechanicsville, Va., died July 29, 2013.

**Clifford Meireis** (BS '53 dairy production), 84, Newton, died Jan. 7, 2014. He was a club agent in Pratt and Sumner counties. He completed his 31 years of service in Norton County as the extension agricultural agent and county director.

**Alfons Stiebe** (BS '39 agricultural economics), 97, Kinsley, died Feb. 24, 2014. After serving in the U.S. Army, he returned to the family farm. He retired after harvesting his 60th wheat crop in 2006.



Alumni participated in a panel discussion for dairy producers and K-State Research and Extension agents in the new Stanley Stout Center. From left: Steve Irsik (BS '69 agricultural economics), Royal Farms Dairy LLC, Garden City; Nathan Campbell (BS '98 animal science), Campbell Farms, Winfield; Brent Buessing (BS '04 animal science), Buessing Dairy, Baileyville; Justin Ohlde (BS '07 animal science), Ohlde's Dairy, Linn; Melissa (Hildebrand) Reed (BS '07 agricultural communications and journalism), Hildebrand Dairy, Junction City; Billy Brown (BS '10 animal science), KDA agribusiness development coordinator; Ken McCarty (BS '05 animal science), McCarty Family Farms, Rexford.



Warren Weibert (BS '69 animal science) spoke to faculty and students when he was named the 2013 Animal Sciences and Industry Distinguished Alumnus. Since 1977, Weibert has operated Decatur County Feed Yard near Oberlin, Kan. He has served as president of the Kansas Livestock Association and Cattle-Fax, chairman of the board for the Kansas Agriculture and Rural Leadership program, and is a member of the College of Agriculture and K-State Research and Extension Advisory Council.



Professor Bryan Schurle, left, presents the 2013 Agricultural Economics Distinguished Alumnus Award to Craig Jagger (BA '74 speech, MS '82 agricultural economics). Jagger spent 27 years in Washington, D.C., as chief economist for the House Committee on Agriculture, principal analyst for agriculture at the Congressional Budget Office, and as the wheat program analyst at USDA's Farm Service Agency. In 2012, Jagger founded Legis Consulting, LLC — a consulting practice focusing on agricultural and budget policies.



Raul Guedes, left, (PhD '97 entomology) accepts the 2013 Department of Entomology Distinguished Alumnus Award from John Ruberson, department head. Guedes has had a successful career at the Federal University of Viçosa in Brazil, where he built an international reputation in pesticide-arthropod interactions, stored product pests, insect communications, and arthropod ecophysiology. He also serves as the scientific director of the Arthur Bernardes Foundation and is a fellow of the Royal Entomological Society.

## Ag Alumni Class Notes

Submit your notes to [www.ksre.ksu.edu/agreport](http://www.ksre.ksu.edu/agreport) or fill out this form and return it to:

Gloria Holcombe

Department of Communications and Agricultural Education

309 Umberger Hall

Manhattan, KS 66506-3402

or email to: [gloria@ksu.edu](mailto:gloria@ksu.edu)

Name\_\_\_\_\_

Spouse's Name\_\_\_\_\_

City\_\_\_\_\_

State\_\_\_\_\_ ZIP\_\_\_\_\_

Home Phone\_\_\_\_\_

Email\_\_\_\_\_

Graduation Date(s)\_\_\_\_\_

Degree(s)\_\_\_\_\_

Employer\_\_\_\_\_

Title\_\_\_\_\_

*Feel free to attach more information.*



# A View Beyond the Classroom



Matt Wolters told agricultural economics students that he understood what it was like to be sitting in a Waters Hall classroom anticipating what the future would hold, because he had been there just 12 years ago.

As a 2014 Distinguished Young Alumnus, Wolters was in Manhattan Feb. 24 to 26 meeting with various groups and presenting a university-wide lecture in the K-State Student Union.

The K-State Alumni Association's Student Alumni Board and the Board of Directors sponsor the award.

Wolters, a 2003 graduate, said he chose agricultural economics as a major because he found the classes interesting and the major offered many job opportunities.

After graduation Wolters traveled the United States promoting his fraternity, Beta Sigma Psi, before taking a job as territory sales person for JD Skiles, a fertilizer equipment supply company in his home town of Atwood.

In 2007, he founded SureFire Ag Systems Inc. with his brother Josh

and friend Blaine Ginther to develop packages to apply liquid using existing equipment, such as corn planters and drills. The business has grown to 31 full-time employees, with seasonal employees during peak seasons. They ship products to 47 states, 6 Canadian provinces, and 6 other countries.

When students asked Wolters what he took away from K-State, Wolters listed three things.

- Ag econ classes taught me how to think strategically and solve problems. I use those skills all the time.
- An agricultural communications class (AG COMM 420) stressed the value of communications and how to write clearly. Those skills are invaluable for marketing materials and creating websites.
- The network of people and relationships I established. Rarely a day or week goes by that I don't interact with or bounce ideas off someone I met at K-State.

Shelby Drodgy, senior in agribusiness from Princeton, Kan., appreciated listening to Wolters.

"I think it's awesome we bring back young, successful alumni to speak to us," Drodgy said. "Especially being a senior, it's more realistic to hear his story now and more inspirational. I love that he was an agriculture student as well."

"He shared experience from his first job, not knowing what he wanted to do, to starting his own business. It shows that you don't have to have it all figured out immediately and can still be successful as a young professional."

In addition to personal success, the young alumni award also emphasizes giving back to the community.

As a K-State student, Wolters was a College of Agriculture ambassador, as well as a member of Blue Key Honor Society and Student Governing Association. He continues that spirit of involvement today.

*In addition to personal success, the young alumni award also emphasizes giving back to the community.*

He and his partners founded the Dream Big Foundation, which promotes and provides resources to enhance science, technology, engineering, agriculture, and math education in the Rawlins County USD 105 school district. He helped reorganize the Kansas FFA Foundation and serves as a member of the Rawlins County Hospital Board.

Wolters completed the Kansas Agricultural Rural Leadership Program in 2011.

This was the second year that K-State honored two young alumni. Both years, a College of Agriculture alumnus was selected.

## Notes from Alums

I wanted to share about a recent visit to campus relating to sorghum.

I was blown away by my visit, from staying at the Hilton Garden Inn, to faculty hospitality to reconnecting with brothers in Alpha Gamma Rho.

The Department of Agronomy and Team K-State host groups very, very well. Kudos to Gary Pierzynski, Tim Dalton, Tesfaye Tesso, and Nina Lilja for a stellar few days.

It made me proud to be a K-State alumnus.

*Jesse McCurry  
BS '00 agricultural journalism,  
MA '02 speech  
Colwich, Kansas*

It is impressive that KSU has been putting out quality and practical research since its beginning. I have been working with silage since I graduated KSU in 1982, and I found a KSU Research Bulletin from back in 1916 that still is pertinent to what we know about silage today.

*Scott Dennis  
BS '75 microbiology,  
PhD '82 animal science  
Urbandale, Iowa*

I just got done reading the Fall 2013 Ag Report, another great one!! I took particular interest in "K-Staters Sweep AGR Undergraduate Achievement Awards." What a huge honor for Reagan and Logan as well as the Alpha Zeta Chapter to take home both of these awards in the same year! Undoubtedly, both guys are well deserving as both are very accomplished students.

As far as I can recall, as the article states, this was the first time any chapter has swept both Undergraduate Achievement Awards in the same year. However, contrary to the article, these brothers are not "the first members of K-State's AGR chapter (Alpha Zeta) to earn this honor." While I don't have the capabilities to access all the past winners, I do know that just during my time in the fraternity at K-State, Alpha Zeta had two recipients: Eric Lomas in 2003 and myself in 2002. Alpha Zeta has had a long history of having top students as members and the chapter is rich in tradition of winning awards. So, I am confident that there were probably other winners before Eric and I.

*Sincerely,  
Cade Rensink  
BS '03 animal sciences and industry  
MS '09 agronomy  
Ada, Kansas*

Readers:

Sincere apologies for the error on the AGR awards in the fall issue. Alpha Gamma Rho national headquarters has confirmed that the Undergraduate Achievement Award was granted to Cade Rensink in 2002 and Eric Lomas in 2003.

Logan Britton is combing through chapter scrapbooks searching for more award winners. If you know of other winners, please send the information to the email address below.

We want to hear from our readers. Send your comments to [gloria@ksu.edu](mailto:gloria@ksu.edu)

## Wild for Ag Weekend May 2-3, 2014

☐ **Yes, I will attend Wild for Ag Weekend in Manhattan**  
☐ **No, I will not be able to attend, but I'd like to contribute \$100 or \$\_\_\_\_\_ to support the mission of the College of Agriculture**

Name \_\_\_\_\_

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Email \_\_\_\_\_

Name for name tag:

First \_\_\_\_\_ Last \_\_\_\_\_

List additional attendees: \_\_\_\_\_ Names for name tags: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Method of payment

☐ Enclosed is a check made payable to the KSU Foundation

### Friday, May 2

☐ Ag Alumni Scholarship Golf Tournament, \$125 per person

List team members: \_\_\_\_\_

\_\_\_\_\_

Number members \_\_\_\_\_ x \$125 = \$ \_\_\_\_\_

Extra meal tickets \_\_\_\_\_ x \$25 = \$ \_\_\_\_\_

**Complete this reservation form and mail it, along with your payment, to:**

College of Agriculture Alumni Association  
Kansas State University  
117 Waters Hall, Manhattan, KS 66506-4015  
or contact Sandy Klein, 785-532-5121 or [sandy@ksu.edu](mailto:sandy@ksu.edu).  
Golf reservations are due April 26, 2014.



# Sharing Knowledge for 100 Years



In this vintage photo, an extension agent talks to a group of farmers about crop root systems. No date available.



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## Wild for Ag Weekend May 2–3, 2014

### **Ag Alumni Scholarship Golf Tournament, Friday, May 2, Manhattan Country Club**

**Four Person Scramble — \$125 Individual Entry Fee**

Registration fee includes: cart, range balls, practice facility, golf, ag alumni merchandise, door prize entry, drink tickets, and dinner following the tournament

**Registration — 11:30 a.m.–12:45 p.m. Shotgun Start — 1 p.m.**

### **Awards Reception, Saturday, May 3 2013 Award winners**

**4 p.m. — K-State Alumni Center**

**Distinguished Alumnus:** Bill Bar, '67 BS feed science and management

**Outstanding Young Alumnus:** Jackie McClaskey, '93 BS agricultural economics, '14 PhD animal science

**David J. Mugler Outstanding Teaching Award:** Dave Krishock, Department of Grain Science and Industry

### **New Graduate and Alumni Dinner**

**6–8 p.m. — K-State Alumni Center Cost: \$25**

Recognition of fall and spring graduating seniors

*For additional information, contact Sandy Klein at 785-532-5121 or [sandy@ksu.edu](mailto:sandy@ksu.edu)*

### **2013 Sponsors**



**Mark your calendars for the Southwest Kansas Ag Alumni Scholarship Tournament July 18th at the Golf Club at Southwind in Garden City.**