

AgReport

College of Agriculture • Spring 2013



AgReport

Spring 2013

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

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From the Dean and Director



K-State Research and Extension photographer Dan Donnert prepares to record dean and director John Floros and professor emeritus Miles McKee at the Beach Museum. The video can be viewed at www.ksre.ksu.edu/agreport.

I'm honored to serve as dean and director during such an important time in Kansas State University history.

On February 14, the university launched a nine-month 150th anniversary celebration. K-State was the nation's first operational land-grant university under the Morrill Act, which was signed into law by President Abraham Lincoln on July 2, 1862.

The College of Agriculture and K-State Research and Extension are participating in many of the sesquicentennial events, including displays at the opening reception in Ahearn Field House; exhibits in the Beach Museum; the Aggie Cat shown on the cover, which will be auctioned in September to benefit scholarships; the creation of the Wildcat Birthday 150 ice cream; and the development of a new wheat variety named 1863 for the year K-State was established.

This issue highlights the importance of the tripartite mission of teaching, research, and extension efforts throughout K-State's history; however, as we acknowledge our history, we must also plan for the future.

To align with the university's goal to become a Top 50 research university by 2025, we are developing

a comprehensive strategic plan. The Office of Educational Innovation and Evaluation facilitated meetings with the seven committees involved with the process. We also solicited feedback from many sources to draft the plan. I encourage you to go to the website, www.strategicplan.ag.ksu.edu, to review the plan and offer your comments. The site will be open for comments throughout April.

K-State now ranks No. 1 in Association of Public and Land-grant Universities teaching awards. We have received 13 national or regional Excellence in College and University Teaching in the Food and Agricultural Sciences awards, more than any other university. Congratulations to Candice Shoemaker, our most recent national winner.

On March 1, we dedicated the Stanley Stout Center. This \$2 million facility — built entirely with private funding — will enhance the annual Bull and Heifer Legacy Sale, enrich the student-learning experience, and provide much needed space for a variety of programs.

A handwritten signature in black ink that reads 'John D. Floros'.

John D. Floros
Dean and Director

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On the cover

Cheri Graham, local artist and graphic designer at AIB International, works on Aggie Cat, one of 30 fiberglass Wildcats decorated for K-State's 150 birthday. She spent about 111 hours creating the 24 images representing teaching, research, and extension on the cat and the base, which also has the official university seal.

It was one of five "Wildcats on Parade" statues chosen for exhibit in Ahearn Field House and at the sesquicentennial gala. It will be on display in Waters Hall until it is auctioned in September to benefit student scholarships.



News Briefs



Caleb Wurth, Sandra Best, Egypt Edwards, Larry Moeder, Simone Holliday, and Jocelyn Clemons

Moeder Honored for Helping Students, Promoting Diversity

Students in the Minorities in Agriculture, Natural Resources, and Related Sciences chapter chose Larry Moeder, assistant vice president for student life and director of student financial assistance and admissions, to receive the 2013 Wallace Kidd Memorial Diversity Award.

John Deere helped sponsor the award. Troy Farley, manager of global corporate compliance for John Deere, had lunch with K-State's John Deere Scholars and spoke at the February 13 awards ceremony.

Moeder was the fifth recipient of the biannual award that honors Wallace Kidd (BS '50), the first African American entomology graduate and a strong advocate for multicultural students, the college, and the university. The Wallace Kidd Family Scholarship was established in 2000.

Provide Input for the Future

The College of Agriculture and K-State Research and Extension have drafted a comprehensive strategic plan that aligns its efforts with the university's overall Vision 2025 plan.

The Office of Educational Innovation and Evaluation (OEIO) worked with the committees involved in the process.

"Dean Floros asked us to facilitate several meetings with each of the seven committees, plus the steering committee," said Jan Middendorf, director of OEIO. "He wanted it to be a very inclusive, transparent process to make sure that all the voices were heard and all the ideas were on the table."

"Our job was to guide and measure the process of where the organization should go, how to get there, and how to know when the goals have been achieved."

Steven Graham, assistant to the dean and director, and John Leslie, head of the Department of Plant Pathology, chaired the steering committee, which included the chairs of all the groups.

The steering committee has written a draft proposal and posted it online during the month of April for further input. To review the plan and offer comments, go to www.strategicplan.ag.ksu.edu.

K-S-U Down Under

President Kirk Schulz, dean and director John Floros, and plant pathology department head John Leslie show their K-State spirit during a trip to Australia.

In March, K-State finalized a new partnership with the Australian-American Fulbright Commission in Australia.

K-State will sponsor two Fulbright scholarships that give Australian scholars the opportunity to conduct research in Manhattan in collaboration with a university professor.

The Fulbright is the world's largest and most prestigious binational educational and cultural exchange program.

The university will sponsor a Fulbright Distinguished Chair in Agriculture and Life Sciences — the first such honor designated for an Australian — as well as an Australian Senior Scholar, which is open to any academic specialty.



Division of Communications and Marketing

New Wheat Variety Recognizes University's 150 Years

A new wheat variety named 1863 commemorates the year K-State opened as the nation's first operational land-grant university.

Daryl Strouts, president of the Kansas Wheat Alliance, approached K-State about a university-themed wheat. The parent varieties for the new hard red winter wheat are Overley, Karl 92, and Cutter.

"Farmers will like it for its yield," Strouts said. "Millers and bakers will like it for its functional quality."

The 1863 wheat will be commercially available for purchase from Kansas Wheat Alliance licensed seed producers in fall 2013.

A video about the new wheat variety is available at www.ksre.ksu.edu/1863.



New Facility Has Multiple Uses

A new greenhouse at the Agricultural Research Center–Hays was completed in September 2012. The facility is used for Dallas Seifers' research in plant pathology, Guorong Zhang's wheat breeding program, Ram Perumal's sorghum breeding program, and J.P. Michaud's entomology projects. Funds for the greenhouse came from K-State, the Kansas Wheat Alliance, the Kansas Wheat Commission, a bequest from a WaKeeney farmer, and the Kansas Grain Sorghum Commission.



Courtesy of Bob Gillen (2)

Focus on the College of Agriculture ...

Celebrating 150 Years

The Museum of Wonder exhibit in the Marianna Kistler Beach Museum of Art showcases some interesting agriculture pieces, including a cow skeleton, millstones, a bronze bull sculpture, a rolltop desk that belonged to entomologist Reginald Painter, and corn-shaped pottery. Emeriti professors Miles McKee, animal science, and Gerry Posler, agronomy, walked through the exhibit with dean and director John Floros, while sharing information about the pieces from their units.



The skeletal remains of "old No. 96" borrowed from Weber Hall. Miles McKee shared that the cow met her fate when he was K-State herdsman (1959–1965). Listen to his story and more at www.ksre.ksu.edu/agreport.

Also on display is the bronze bull presented to K-State after winning the judging contest at the International Livestock Exposition three years in a row (1936–1938) and two mounted New Hampshire red chickens donated by Mr. and Mrs. Howard Wallace.

View videos of the exhibit and hear histories of these objects at www.ksre.ksu.edu/agreport



Professor emeritus Gerry Posler and dean and director John Floros discuss objects on loan from the Department of Agronomy, including pottery from an exhibit of corn objects collected around the world and donated to the department by Wayne H. Freeman.



Professor emeritus Miles McKee and dean and director John Floros visit with Linda Duke, director of the Marianna Kistler Beach Museum of Art, about the objects from the College of Agriculture submitted for the sesquicentennial Museum of Wonder exhibit.

Ahearn Field House was alive with music, displays, and cheers on February 14 at the kickoff of K-State's 150th birthday celebration.



Above and top right: Displays for the College of Agriculture and K-State Research and Extension provided historical information.



Above: Former K-State student body presidents Gov. Sam Brownback, Jackie McClaskey, Greg Musil, and Nate Spriggs lead the crowd in a cheer during the sesquicentennial opening ceremonies in Ahearn Field House. Gov. Brownback (1978–1979), McClaskey (1991–1993), and Spriggs (2011–2013) are among the 24 College of Agriculture student body presidents.

Right: Current student body president Nate Spriggs addresses the crowd.



Jared Parsons (BS '07 animal science), dairy plant manager, and Haley Matlack, dairy plant student employee, sample Wildcat Birthday 150 ice cream. They created the white-based ice cream with cubes of birthday cake and purple sprinkles especially for the sesquicentennial. It was served at the Ahearn celebration, and it is available at the Call Hall Dairy Bar through October.



THEN AND NOW

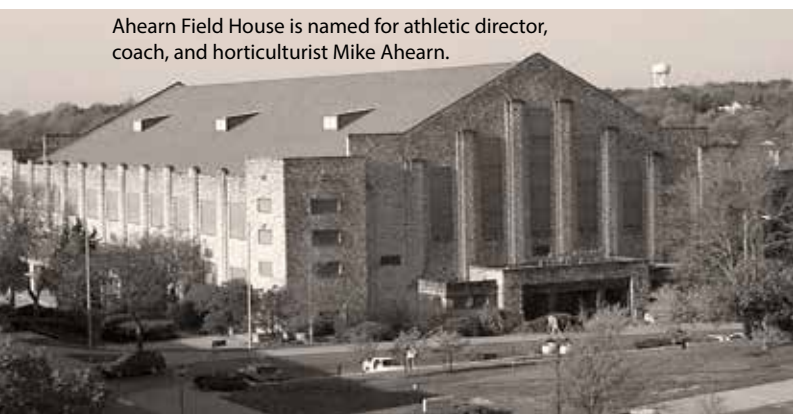
A brief history of how campus buildings relate to agriculture

If walls could talk, campus buildings would have some interesting stories to tell. We might hear athletic director Mike Ahearn discussing what flowers to plant on campus, and children at Hoeflin Early Childhood Education Center would learn about caring for chickens and sheep.

But walls don't talk, so we depend on written university and department histories to piece together how campus buildings were used and why many bear the name of historic figures. Those documents show that the College of Agriculture and K-State Research and Extension have always and continue to have prominent roles on the Kansas State University campus.

Michael F. "Mike" Ahearn is usually remembered as former athletic director and the second "winningest" football coach behind Bill Snyder. He also was a horticulturist.

Ahearn Field House is named for athletic director, coach, and horticulturist Mike Ahearn.



Ahearn attended Massachusetts Agricultural College, now the University of Massachusetts Amherst, where he lettered in football, basketball, baseball, and ice hockey. He came to Manhattan in 1904 as superintendent of the greenhouse.

Ahearn coached winning athletic club teams, but at that time coaching was not considered a full-time job. In 1911, he accepted a position as a horticulture professor, focusing primarily on ornamental horticulture. He also managed garden plots and authored several Agricultural Experiment Station reports on flowers and vegetables. The Scottish ivy growing on walls of some campus buildings was planted in the Ahearn era. In 1920, President Jardine appointed Ahearn to lead K-State's Physical Education Department. The field house was completed in 1951 and named for Mike Ahearn.

Anderson Hall

The north wing of Anderson Hall was built in 1879. Initially it contained classrooms for English, drawing, mathematics,

Anderson Hall was originally called the Practical Agriculture Building.



and practical agriculture. It also housed the president's office, cloakrooms, and the college library from 1879 until 1894. The center section with the now familiar tower was built in 1882, and the south wing was added in 1884. It was called the Practical Agriculture Building or the Main College Building until 1902, when it was named for John A. Anderson, university president from 1873 to 1879. Over the years, Anderson Hall also has been home to a chapel, a canteen and barber shop, a recreation center, a post office, and various offices and classrooms.

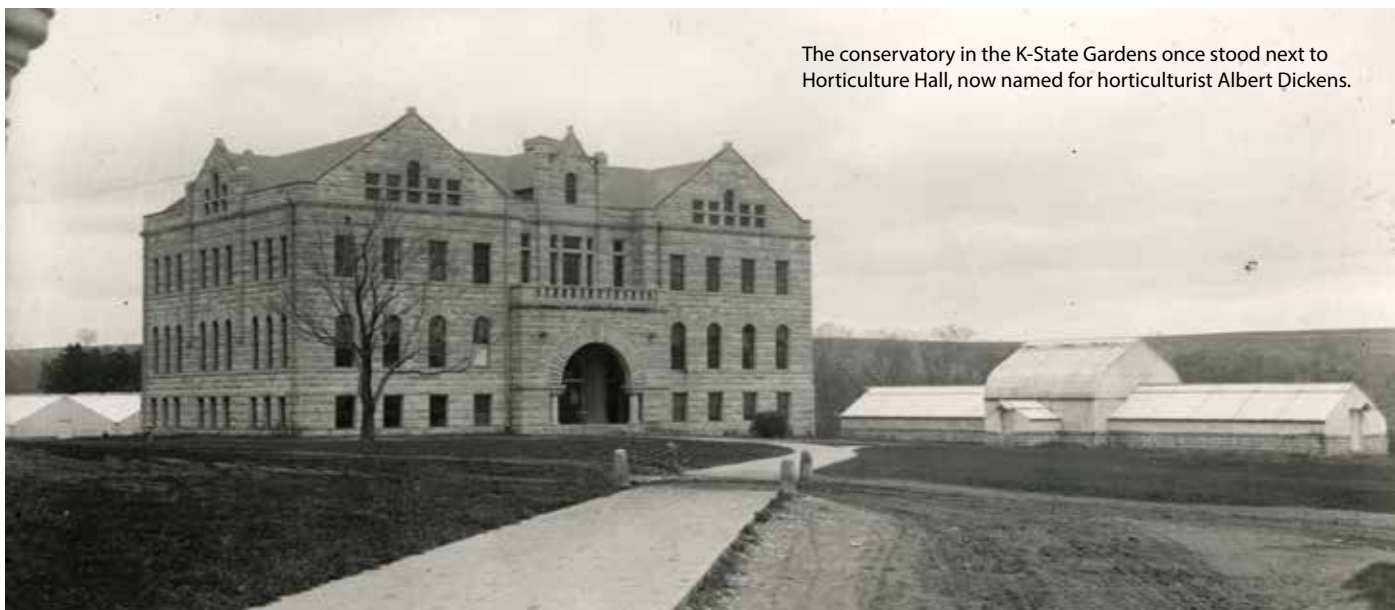
Call Hall

K-State alumni bring their children and grandchildren to Call Hall to sample the rich, tasty ice cream they remember



The Call Hall dairy plant processes milk from the K-State dairy herd. Dairy products are served in the Dairy Bar, residence hall dining centers, and other sites.

from their college days. Call Hall is named for Leland Everett Call, who came to K-State in 1907 as an assistant in the Department of Agronomy. He served as assistant and associate professor of soils, head of the department from 1913 to 1925, and dean of agriculture and director of the Agricultural Experiment Station from 1925 to 1945.



The conservatory in the K-State Gardens once stood next to Horticulture Hall, now named for horticulturist Albert Dickens.

In addition to the dairy plant (shown at left), Call Hall is home to the Food Science Institute, as well as offices and labs for the Department of Animal Sciences and Industry.



Several departments continue to use the dairy barn built in 1933.

Stone Barns

The Dairy Barn that faces Denison Avenue was used for dairy research from 1933 until 1972, when the herd was moved to the current dairy facility north of Marlatt Avenue. In 2001, the barn was named for Glenn H. Beck, dean and vice president for agriculture from 1962 to 1973. The building is now home to the Insect Zoo, managed by the Department of Entomology, and the K-State Gardens Quinlan Visitor Center, named in honor of horticulture professor L. R. Quinlan.

Farm Machinery Hall, one wing of a two-story stone barn, was built in 1873 and torn down in 1963. Several other stone barns were destroyed by fire or wind. The limestone from those buildings was repurposed for other buildings and the K-State Gardens.

Dickens Hall

Albert Dickens graduated from Kansas State Agriculture College in 1893 and continued working for the college while taking graduate courses. He was hired as a horticulture assistant in 1899 and served as professor of horticulture from 1902 to 1930. The department was in Horticulture Hall, built in 1876.

In 1905, plans were developed for a new horticulture building just east of the existing building. A gothic arch, glass greenhouse — the conservatory — was built south of the new building in 1907. A six-section greenhouse was built north of Horticulture Hall in 1910.

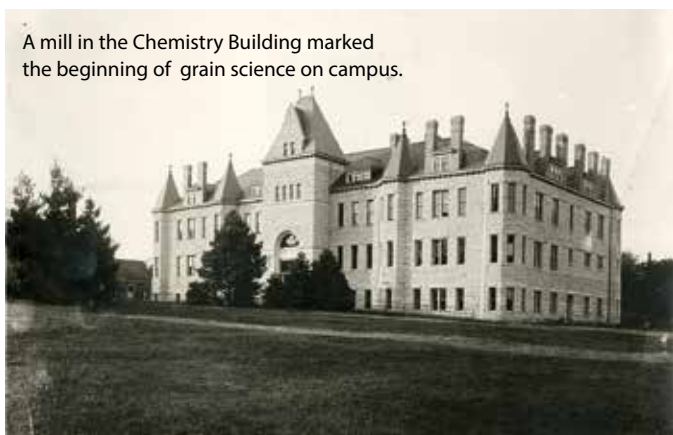
In 1931, the horticulture building was renamed Dickens Hall. The 1876 horticulture building was renovated and renamed Illustrations Hall in 1920 and razed in 1959. In 1978, the conservatory was to be torn down to make room for Bluemont Hall. A group of alumni and horticulture supporters campaigned to save the conservatory and have it moved to its present location in the K-State Gardens.

Danforth Memorial Chapel



In 1927, William H. Danforth, founder of the Ralston Purina Company, and wife Adda established the Danforth Foundation as a national educational philanthropy. The foundation helped build 24 meditation chapels, including K-State's Danforth Memorial Chapel, built in 1949.

Danforth believed that a balanced life of mental, physical, social, and spiritual development created effective leaders. In his book, "I Dare You," he dared others to read his book and not be inspired. Since 1941, high school students who earned the I Dare You Award received a copy of his book and a chance to attend summer leadership camp in Michigan. Kansas 4-H clubs still present the award, and several former and current K-State Research and Extension agents and specialists have earned the award.



Denison Hall

In 1905, the Department of Grain Science and Industry got its start when an experimental mill — used to evaluate milling quality of new strains of hard winter wheat — was installed in the Chemistry Building. In 1913, that building was named for Joseph Denison, university president from 1863 to 1878 and the mill was moved to East Waters Hall. Denison Hall, which was located where Eisenhower Hall is now, burned in 1934. A smaller version was rebuilt in 1960 just south of Hale Library and then demolished in 2004.

Fairchild Hall

By 1893, crowded conditions in Anderson Hall convinced the legislature to appropriate \$60,000 for the construction of a "Library and Agricultural Science Hall." During summer 1894, the library was moved from Anderson Hall to the new building. In 1902, it was named Fairchild Hall for George T. Fairchild, university president from 1879 to 1897.

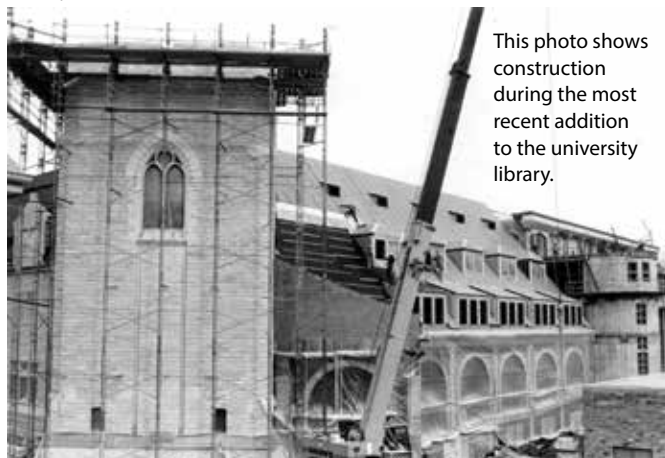
The growth of the library's holdings and the increased need for reading space required a second floor and northwest additions in 1903. The Library and Agricultural Science Hall was moved to the north wing of the college library in 1927.

The Department of Entomology was in Fairchild Hall from 1894 to 1965, when it moved to its current home in Waters Hall.



Hale Library

The college library was completed in 1927, making it the first campus building devoted solely to housing the library. In 1955, a stacks addition was completed on the south, and the library was named in honor of Francis David Farrell, dean of



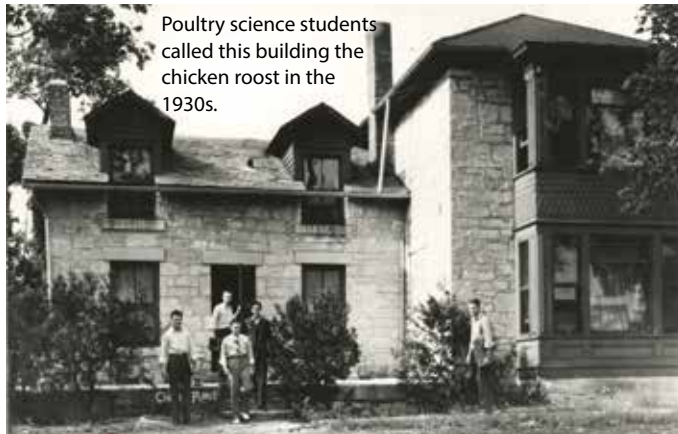
agriculture and director of the Agricultural Experiment Station from 1918 to 1925 and university president from 1925 to 1943.

In 1964, as part of the federal government's Public Works of Art Project, David Hicks Overmyer painted four 11- by 14-foot Historic Farrell Library murals, symbolizing the major academic pursuits of the institution at the time: science and industry, agriculture and animal husbandry, the arts, and home economics. Friends of the K-State Libraries funded a recent restoration of the murals, and they were professionally photographed by Ed Olson.

A second addition to the southeast was completed in 1970. The library was expanded, renovated, and renamed for H.D. "Joe" and Joyce Hale in 1997. The original 1927 building retains the historic name Farrell Library, and the main entry to Hale is officially known as the Farrell Entrance.

Hoefflin Early Childhood Education Center

The stone house used as the Hoefflin Early Childhood Education Center was purchased in 1925 from John and Fannie Gish of Abilene, who lived in the house while their



eight children attended K-State. During the 1930s, the building was home to students in the poultry science program. They affectionately called it the "chicken roost." In the 1940s and 1950s, the K-State shepherd lived in the house.

Holton Hall

Holton Hall was completed in 1900 as the Agriculture Building. A large part of the building was used for dairy manufacturing. A wooden barn for dairy stock was built



with the building but was later razed. After the agricultural departments moved to Waters Hall, it was used by the vocational school until 1924 when it became Education Hall. In 1950, the building was officially named for Prof. Edwin Lee Holton, who served as department head for education from 1913 to 1946.



Holtz Hall, now home to Career and Employment Services, was previously called the Chemistry Laboratory, Women's Gymnasium, and Mathematics Hall. This photo shows the gym being used for a corn exhibit.

Jardine Terrace Apartment Complex

The modern apartment complex at the corner of Denison and Jardine Drive is home to more than 1,500 residents from about 50 countries. The original complex was completed in 1957 and named for William M. Jardine, university president from 1918 to 1925. Additional apartments were added in 1959 and 1963.



President Jardine began his career at K-State as a professor of agronomy in 1910. He was appointed director of the Agricultural Experiment Station and dean of the Division of Agriculture in 1912, before becoming president in 1918. He and his family were the first to live in the current president's residence at 100 Wilson Court. He resigned when President

Calvin Coolidge appointed him secretary of the U.S. Department of Agriculture.

McCain Auditorium

McCain Auditorium features Landon Lectures, convocations, touring music, dance and drama, and student performances. The auditorium, completed in 1970, also housed extension communications staff and the university radio station, KSAC, later known as KKSU. The radio station was located in Nichols Gymnasium before it was destroyed by fire in 1968.

In 1975, the auditorium was named for James A. McCain, university president from 1950 to 1975. The Department of Communications and Agricultural Education still maintains a broadcasting booth, a photography studio, and offices in the basement.

Pat Roberts Hall

Faculty in various departments including Plant Pathology and Animal Sciences and Industry conduct research in the Biosecurity Research Institute in Pat Roberts Hall.

Shellenberger Hall

The Milling Technology building was completed in 1960 to replace the milling department equipment and facilities destroyed by the 1957 fire in East Waters. The building was named Shellenberger Hall in honor of John A. Shellenberger (MS '31 milling science and management), who was head of the Department of Milling Industry from 1945 to 1970. The third floor was added to the building in 1983.

According to a 1961 *Manhattan Mercury* article, the milling stones at the east entrance of Shellenberger Hall were probably from an old mill at Lindsborg and given to the university around 1917.

The Feed Technology Building, adjacent to East Waters and Shellenberger, was completed in 1956. It houses the pilot mill. The extrusion center was located there until the Bioprocessing and Industrial Value-Added Center was built on Kimball Avenue in 2005.



Benjamin Fairless throws the switch to start the new pilot mill in the Feed Technology Building as Lewis Parson; James McCain, university president; John Shellenberger, department head of grain science; and Kansas Senator Frank Carlson watch.

Throckmorton Plant Sciences Center

Throckmorton Hall was built in two phases — the center section was built in 1981, with the east and west additions completed in 1994, when it was renamed the Throckmorton Plant Sciences Center. Its namesake, Ray Iams Throckmorton (MS '22 agronomy), served as head of the Department of Agronomy from 1925 to 1946, when he became dean of the College of Agriculture and director of the Agricultural Experiment Station.



Section A of Throckmorton was built in 1981. Sections B and C were completed in 1994. The greenhouses (D) connect Throckmorton to the Dairy Barn. Section B was named Merrill Hall for E. F. Merrill in October 1994.

The departments of Agronomy; Plant Pathology; and Horticulture, Forestry and Recreation Resources conduct classes and research in the building and attached greenhouses.

Umberger Hall

Often referred to as the Extension Building, Umberger Hall was completed in 1956 and named for Harry John Charles Umberger (BS 1905), who served as dean of extension from 1919 to 1947. Williams Auditorium, one of the largest classrooms on campus, brings students from nearly every major to Umberger Hall. In 2012, the auditorium was renovated and its technology upgraded.



This photo shows Umberger Hall as it looked in the 1950s.

Waters Hall

Waters Hall was built in sections: East Waters in 1913; Waters Annex in 1914, West Waters in 1923, and the center section in 1952.



This aerial view shows the four sections of Waters Hall.

East Waters was called Agricultural Hall until 1919, when it was named for Henry Jackson Waters, university president from 1909 to 1917. East Waters housed animal science and agronomy. Grain science transferred from the Chemistry Building to East Waters. A meats lab was added to the north end of East Waters around 1923. East Waters was severely damaged by fire on August 25, 1957.

Waters Annex was built as a livestock judging pavilion. It has served many purposes over the years, such as a holding area for animals before they were processed in East Waters.

The International Grains Program was in the annex before the IGP Conference Center was built on Kimball Avenue in 2004.

Waters Annex now houses multipurpose classrooms used by the Academic Programs Office and the departments of Agricultural Economics and Communications and Agricultural Education.

West Waters mirrored the east section with three floors, a basement, and sub-basement. Cows were milked in the nearby dairy barn, and the milk was processed in the basement of West Waters and shipped from a loading dock on the north side of the building. Since there was no student union at the time, the ice cream counter in West Waters was a popular gathering place.

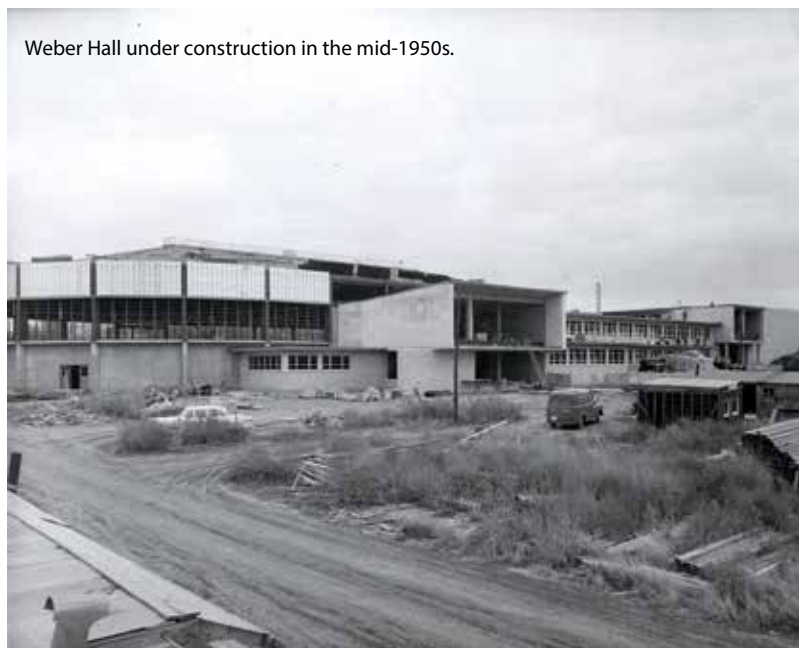
The center section that joins East and West Waters halls was completed in 1952.

The poultry department was in West Waters for about 40 years. In 1964, the dairy bar and the poultry unit were moved to Call Hall, and West Waters was remodeled. In addition to administrative offices for the College of Agriculture and K-State Research and Extension, Waters is home to the departments of Agricultural Economics; Entomology; Sociology, Anthropology, and Social Work; and Economics.

Weber Hall

Arthur Weber (BS '22, MS '26, animal science) influenced students, faculty, the livestock industry, and the Manhattan campus. He served as a faculty member for 15 years, head of the Department of Animal Husbandry from 1944 to 1950, and as associate dean and then dean of agriculture from 1952 to 1961. Weber was appointed acting president of the university in 1957, the same year that Weber Hall was completed. The building was named for him in 1964. Weber was often referred to as Dad Weber, a name he acquired as a senior in high school because his classmates often asked him for advice.

Weber Hall was expanded and renovated in 1987. Weber Arena hosts many events, including the K-State Rodeo, and is home to the Department of Animal Sciences and Industry.



Weber Hall under construction in the mid-1950s.

Photos and information for this article came from University Archives in Hale Library; the *History of the Kansas State College of Agriculture and Applied Science* by J.T. Willard; *K-State Agronomy Centennial 1906–2006, A Century Remembered*; *Building the Legacy* edited by Gerry Posler and Gary Paulsen; *A History of the Kansas State University Department of Animal Sciences and Industry* by Miles McKee; *A History of the Horticulture Department at Kansas State University 1870–2012* by Chuck Marr; and *How It Came To Be, A Short History of the Department of Grain Science and Industry at Kansas State University 1905–2006*, by Chuck Walker.

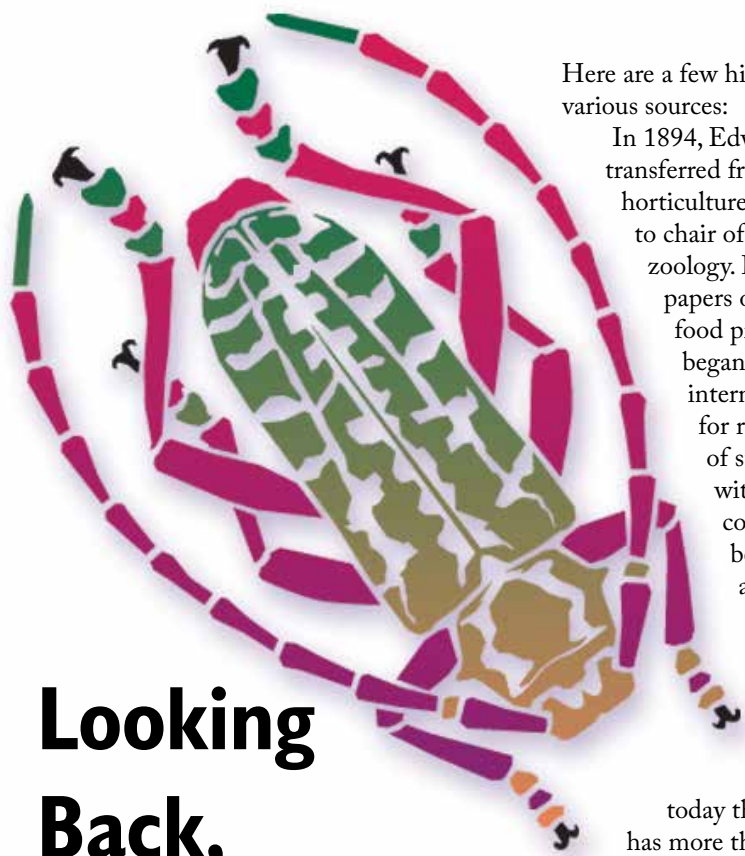


KANSAS STATE
UNIVERSITY

We used written university and department histories to piece together this history. Now we want to hear from our readers.

Tell us what you remember about K-State.

Send your remembrances to gloria@ksu.edu, and we'll post them online at www.ksre.ksu.edu.agreport.



Looking Back, Moving Forward

Kansas farmers and gardeners are familiar with insects attacking their crops and vegetables. They probably don't know that Benjamin Mudge taught the first U.S. economic entomology course, "Insects Injurious to Vegetation," at K-State in 1866.

"K-State has a rich entomological history," said John Ruberson, head of the Department of Entomology. "In fact, that rich history is part of what drew me to Manhattan."

Much of the department's history was recorded by Professor Herbert Knutson, who worked in the department from 1953 to 1983. After his retirement, Knutson gathered notes from former faculty and the university historian. He died before completing the project, but Ted Hopkins — with assistance from editor Eileen Schofield — published the history in 1991.

Here are a few highlights from various sources:

In 1894, Edwin Popenoe transferred from head of horticulture and entomology to chair of entomology and zoology. He published papers on weevils in food products, which began what is now an international center for research on pests of stored products, with extensive collaboration between K-State and the U.S.

Department of Agriculture.

The insect museum was started about 1877;

today the collection has more than 800,000 specimens. More than one-fourth of the collection has

been entered into a database and posted online for access by researchers around the world.

Reginald Painter, a faculty member from 1926 to 1968, worked with plant breeders in the departments of Horticulture and Agronomy and USDA to develop plants with resistance to insects. His efforts established the basis for modern work in insect-resistant crop plants, which changed crop and food production around the world.

The rolltop desk used by Painter is part of the historical Museum of Wonder now on display in the Marianna Kistler Beach Museum of Art on campus.

To study insects throughout Kansas, entomologists were stationed at off-campus research facilities. Graduate student Roy Fritz joined the Garden City Experiment Station in 1939, and the first full-time entomologist at the Hays Experiment Station arrived in 1948. In 1960, entomologist Tom

In 2012, the department celebrated the 10th anniversary of the Insect Zoo with various activities, including a Monarch butterfly release. The zoo hosts nearly 9,000 visitors per year.

Harvey and animal scientist John Brethour at Hays developed the first insecticide-impregnated ear tags, which had widespread use during the next 10 years.

Since the early 1950s, extension entomologists have prepared a weekly newsletter of insect conditions during the growing season.

K-State entomologists also developed and published the first extension publication on horticultural pesticide mixtures and use.

The department is embracing new technologies to meet the needs of producers, including several mobile pest management applications and tools: BugSpot (www.thebugspot.org) a free-trapping network to monitor arthropod activity, a website (www.iwheat.org) to help field-specific management of key insect pests, weeds, and pathogens, SoyPod DSS (www.soypod.info) to aid treatment decisions for soybean aphid.

Ruberson said he sees a bright future for the department.

"The challenges of providing a growing population with a safe food supply; of battling insect-borne diseases like malaria, West Nile virus, and Barley yellow dwarf virus; and the great value of learning how insect success can enhance the quality of our lives and that of the planet ensure a vital role for entomology in the years ahead."

Knutson's history is available online at www.ksre.ksu.edu/entomology.



Horticulture's Place in K-State History

Care to guess which department in the College of Agriculture was established first? If you said horticulture, you're right. It was created in 1871, when the Agriculture Department split into the Farm Department and the Horticulture Department. It has changed names 11 times, including four times as the Horticulture Department.

In preparation for the university's sesquicentennial — Stu Warren, head of the now Department of Horticulture, Forestry and Recreation Resources — recruited professor emeritus Chuck Marr to research and record the department's history.

Marr spent many hours poring over documents in University Archives and talking to fellow retirees to write *A History of the Horticulture Department at Kansas State University 1870–2012*.

According to Marr, horticulturists influenced Kansas State Agricultural College from its very beginning. Orchard and fruit garden classes first appeared in the college's course catalog in 1864, and horticulture was the first area of emphasis in agriculture that was identified by its own budget line.

In the early years, the salary for the professor of horticulture was second only to the college president. However, appropriations from the state legislature for operations were sparse. One year, the legislature budgeted \$250 for horticultural activities for the entire college, while appropriating \$1,400 for tobacco for prisoners in the state penitentiary.

Elbridge Gale, a minister with a passion for horticulture, purchased 40 acres of land near Manhattan in 1856, where he established an orchard and experimented with a wide variety of plants that would grow in the area.

Gale was appointed professor of horticulture and superintendent of the orchard and nursery in 1870. He and the regents looked for nearby land with better soils for growing crops. The land was purchased initially for agricultural purposes, but the regents chose to relocate the entire campus from its original location, at what is now the intersection of College and Claflin avenues, to the current campus location.

Edwin Popenoe was appointed professor of horticulture in 1879. At that time there were no textbooks or journals and few experiments. The Hatch Act of 1887 created an agricultural research emphasis at land-grant universities. Popenoe authored several experiment station bulletins on insects of fruit and later became head of the Department of Entomology. He also helped implement a general landscape plan for the campus and led significant expansions of gardens, orchards, and plant material evaluations.

In 1885, noted landscape designer Maximilian Kern of St. Louis was hired to design a landscape plan for the K-State campus, creating the circular drives and main entrance to the campus.

Some familiar names, characters, and varieties also have roots in horticulture.

David Fairchild, son of university president George Fairchild, traveled the world searching for plants that could be grown in the United States. He brought back hundreds of important plants, including alfalfa, nectarines, dates, cotton, bamboos, and the flowering cherry trees in Washington, D.C.

In the 1950s, plant breeder C.V. Hall developed and released several melon varieties. His Crimson Sweet watermelon became one of the most popular watermelon varieties in the world.

Horticulture professor George Filingier wrote and self-published a book to support Manhattan's centennial in 1955. A 30-foot statue of the book's "larger than life" character Johnny Kaw stands in the southeast corner of Manhattan City Park.

The diverse department now offers a variety of undergraduate courses, with majors in horticulture, park management and conservation, and wildlife and outdoor enterprise management, and graduate degrees.

The department also includes the Kansas Forest Service; research units at Manhattan, Olathe, Haysville, and Chetopa; oversight of the K-State Gardens; and training for Master Gardeners and other groups.

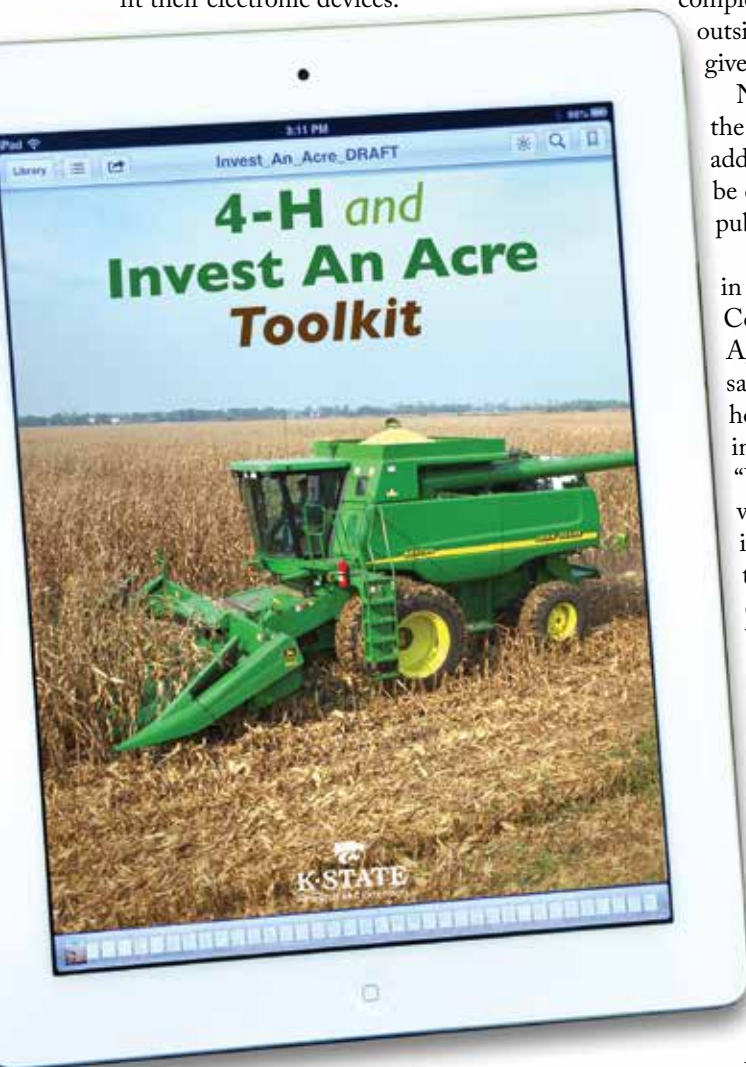
For more horticulture history, read *Then and Now* on pages 6 to 11 and access Marr's document at <http://www.hfrr.ksu.edu/doc3506.ashx>.



Division of Communications and Marketing

Communication Legacy Advances with New Publication Formats

K-State's sesquicentennial leads us to ponder our heritage as the first land-grant institution and the research and outreach mission that serves the people of Kansas. In the past, communicating everything from fertilizer application guidelines to 4-H dog show rules was accomplished with print publications, but now the public needs formats that fit their electronic devices.



K-State Research and Extension professionals are striving to keep up. One project in the works is a website for 4-H horticulture judging guidelines. Evelyn Neier, associate specialist in 4-H Youth Development, explained that horticulture judging participants need to identify plants from the foliage, fruits, flowers, and sometimes seeds, and they must learn different varieties.

"It's always been a challenge for coaches and kids to find all those plants to study," Neier said. "We've been asked for study kits and manuals, and it's overwhelming to think how you would make a study kit for 120 plants."

So the website project was born.

"Kids have so much more access to electronic media," said Neier. "It's not a complete substitute for getting outside to study plants, but it gives us another option."

Neier adds that when the website is complete, adding plants or photos will be easier than revising a publication.

Linda Gilmore, editor in the Department of Communications and Agricultural Education, said thinking about how the audience uses information is vital.

"We need to make sure we're offering something in a format that is going to be most useful for the desired goal, not just because it's cool."

She added that books are often prohibitively expensive: "We want the material to be accessible, and kids are comfortable online."

New formats also have an interactivity advantage. Mark Stadtlander, editor in the Department of Communications and Agricultural Education,

said projects are moving beyond mere availability online. In the "Wheat Disease Identification" book, readers can click on photos and see images of diseases.

He noted that some of his clients "are interested in alternate formats that add more value and a better user experience to educational materials."

Electronic publications (epubs) can be viewed on a variety of devices and

provide enhanced content. They are convenient for the user, Stadtlander said, because after they're downloaded to a device, users don't need an Internet connection to read them.

According to 4-H specialist Deryl Waldren, youth like this format.

"Kids don't want all text. They want pictures, videos, and live links to websites so they can explore," he said. "We need to move that way as fast as we can."

To that end, Waldren is working with Gilmore on an epub called the "Invest an Acre Toolkit." The publication is a great candidate for an epub because it is designed to reach many audiences in an effort to help local groups of all types learn to reduce hunger.

"It uses materials from a variety of places and will include a recording piece you can use to fill in information for your project and other tools that make it easy to gather information," explained Gilmore.

Waldren hopes to see many 4-H resources offered in a similar format soon.

"We're hoping to move our project manuals that way, because they need to be in a format kids want," he said. "Anyone who works with youth is in this same situation: It can't be just print."

Stadtlander and Gilmore say their shop is ready to assist Waldren.

"We posted some of the first extension PDFs," said Stadtlander. "We were one of the first public universities to heavily adopt the PDF format and make sure most of our publications were accessible for free online. To stay viable and valuable, we need to continue to adapt to new technology and new formats."

Gilmore agrees and notes that she and her fellow editors are able to help clients consider what format best serves their information and audience.

"Editors are aware of the things that have changed," she said. "We make an effort to pay attention to trends and can help people understand their audiences."

— Sarah Hancock



Jocelyn Clemons

Two Worlds – Beauty Queen to Computer Tech

Jocelyn Clemons doesn't like to wear heels or makeup, but she does enjoy a challenge. Clemons entered her first scholarship pageant and was crowned K-State's Miss Black and Gold on Dec. 2, 2012. The pageant is sponsored by the Kappa Tau chapter of Alpha Phi Alpha Fraternity.

"I declined to enter the pageant several years ago but decided to step out of my comfort zone and give it a try," Clemons said. "The experience has helped me be more confident. I would encourage other students to learn to be comfortable not being comfortable."

She came to K-State from Austin, Texas, as a 2009 Multicultural Academic Program Success (MAPS) participant and has been involved with Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS), serving a year as president; a Cargill Project Impact Scholar; an American Royal Scholar; and was the first minority to serve on the national Agriculture Future of America (AFA) Student Advisory Board.

"My personal goal is to encourage more minorities to attend AFA

conferences and to apply for scholarships," Clemons stated.

Her choice of major shows that Clemons is not afraid of expanding her horizons.

Clemons, a senior in agricultural technology management, came to K-State with no knowledge of agriculture.

She praised her adviser John Slocombe, professor of biological and agricultural engineering.

"Dr. Slocombe encouraged me to be the treasurer for the K-State Robotics Team and to take computer classes that interested me," Clemons said. "He's a great instructor and very helpful."

Zelia Wiley, College of Agriculture assistant dean for diversity and MANRRS adviser, also has been a positive influence.

Clemons has worked in the college's Diversity Programs Office, and she is helping Wiley teach an online class this semester. She will graduate in May and has accepted a job as an IT associate with Cargill Meat Solutions.

Cargill recently made a gift of \$1.2 million to renew its support of the Cargill Project Impact Diversity partnership at K-State. Through this program, K-State works to recruit and retain qualified multicultural students in the colleges of Agriculture, Business Administration, and Engineering. The program was introduced in 2008 through a \$1 million Cargill contribution.

Since its introduction, K-State has experienced a 68 percent increase in multicultural student enrollment in the target disciplines, and an 87 percent overall first-to-second year retention rate for Cargill Project Impact scholars compared to 70 percent for all multicultural students.

"Cargill is proud to continue supporting K-State's Project Impact," said Rick Calhoun, president of Cargill's cargo carriers business. "We recognize how important this program is in building and strengthening the diversity at K-State. This is vital for the future of the students, the university and for businesses, like Cargill that value diversity."



Photo courtesy of the Diversity Programs Office

Allison Diederich, freshman in animal science, Jocelyn Clemens, senior in agricultural technology management, and Egypt Edwards, sophomore in agronomy, at the K-State Miss Black and Gold pageant.

Student Highlights

Courtesy of K-State Athletics



Devin Dick, senior in agribusiness from Hutchinson, earned second in the heptathlon at the Big 12 Indoor Championships, and he will compete at the NCAA Indoor Track and Field Championships. The heptathlon includes the pole vault, high jump, long jump, shot put, 60-meter hurdles, and the 1,000-meter and 60-meter events. He transferred to K-State in 2011, after surviving two bouts of cancer. His adviser, Bryan Schurle said, "It's a pleasure to work with someone so dedicated and focused."

Courtesy of McKayla Brubaker



McKayla Brubaker (far right), freshmen in agricultural communications and journalism from Delphos, receives a \$50,000 check on the Grand Ole Opry stage in Nashville, Tenn. She won a national "My Teacher My Hero" essay contest with a story about her Minneapolis High School math teacher Cynthia Beall (second from right). Dollar General sponsored the award.



Curran a 2013 Truman Scholarship finalist

Kassie Curran, senior in food science and industry from Farlington, is a 2013 Truman Scholarship finalist. She has served as president and career fair coordinator for the College of Agriculture Ambassadors, vice president of community outreach for Collegiate Farm Bureau, beef promotions director for Collegiate CattleWomen, and Kansas FFA vice president.

Curran's honors, scholarships, and awards include: American Royal Scholar; Institute of Food Technologists Scholarship; National Cattlemen's Foundation Scholarship; Quest freshmen honorary; and Gamma Sigma Delta, the agriculture honorary.

Her undergraduate research project on consumer concerns, preferences, and opinions of a variety of food safety and technology practices is funded through a U.S. Department of Homeland Security Career Development Grant.

Academic Quadrathlon Team Wins Regional Award

K-State team members Chase Miller, Kiah Gourley, Angela SESCO, and Analena Simmon won first place in the 2013 Midwestern Section Academic Quadrathlon. They competed in a lab practicum, oral presentation, written exam, and quiz bowl. In July, the team will compete at the American Society of Animal Science National Academic Quadrathlon in Indianapolis.



George Dille, senior in horticulture, was selected as a Professional Landcare Network (PLANET) student ambassador. He is one of only eight students nationally to receive this recognition. He is Horticulture Club president and serving his second year as a K-State PLANET Landscape Contracting Team student coordinator. The photo above shows (from left): Kansas Secretary of Agriculture Dale Rodman, students Dille and Emily Frasier, associate professor of landscape management Cathie Lavis, and K-State President Kirk Schulz at PLANET 2012 in Manhattan.

Food science students Josh Sinning and Krista McKay placed second in the DuPont Knowledge Award product development competition. Their entry, Sweet Potato and Carrot Crisps, combines sweet potatoes, carrots, and whole wheat into a cracker-like snack with a barbecue flavor. They won \$5,000 and a trip to the Prepared Foods New Products Conference in Palm Beach, Fla. Associate professor Kelly Getty is their adviser.



Student shorts

- **Lindy Singular**, junior in agricultural economics from Linn, was crowned Miss Rodeo K-State at the 57th annual K-State Collegiate Rodeo February 22–24. In spite of winter weather challenges, all performances of the K-State Rodeo were held as scheduled and drew large crowds.
- **Jared Crain and Sarah Battenfield**, K-State doctoral candidates in genetics, are two of 14 fellows in the prestigious Monsanto Beachell-Borlaug International Scholars Program for 2013. Crain, Woodward County, Okla., will work with Jesse Poland, adjunct assistant professor of agronomy, to improve productivity in wheat through advanced breeding tools. Battenfield, Hennessey, Okla., will research ways to improve yield and end-use quality of wheat crops under the guidance of K-State wheat breeder Allan Fritz.
- **Michael Gibson**, master's student in grain science, Meriden; **Melissa Lynes**, doctoral student

in agricultural economics, Kissimmee, Fla.; **Michael Joseph**, doctoral student in grain science, Karimanoor, State-Kerala, India; **Vahid Rahmani**, doctoral student in biological and agricultural engineering, Shiraz, Iran; and **Kabita Kharel**, master's student in entomology, Bharatpur, Nepal, were among the students chosen to present their research at the Capitol Graduate Research Summit on Feb. 14, 2013, in Topeka.

- **Jared Wynn and Tyler Schultz** are the 2013 Henry C. Gardiner (BS '53 animal science) Scholarship winners. They each received a \$3,000 scholarship presented by Henry's son Mark Gardiner (BS '83 animal science).
- Entomology doctoral student **Shelly Wiggam-Ricketts** won the award for best student presentation by the Kansas chapter of The Wildlife Society at the 2013 Kansas Natural Resources Conference. Her poster presentation was titled "Pollinator Resource Use in Rangelands that Utilize Patch-

burn Grazing." She is mentored by entomology professors Gregory Zolnerowich and David Margolies.

- Five K-State students have been nominated for Morris K. Udall Undergraduate Scholarships, including **Anthony Meals**, Clay Center, and **Kaitlin Morgan**, Deerfield. Meals, a senior in agricultural education, is a member of Kansas FFA, the university's Heifer International Club, and the Agricultural Education Club. Morgan, a sophomore in agricultural communications and journalism/animal sciences and industry, is a member of Sigma Alpha professional agricultural sorority, Agricultural Communicators of Tomorrow, and is a College of Agriculture ambassador.
- **Claudia Montoya Nunez**, master's student in agribusiness, Bayonne, N.J., received a spring 2013 \$1,000 Maurine Allison O'Bannon Memorial Scholarship from K-State's Division of Continuing Education.

Faculty Notes

Agricultural Economics

David Lambert, department head, is the president-elect of the National Association of Agricultural Economics Administrators.

Associate professors **Jason Bergtold** and **Tian Xia**, and Marcellus Caldas, assistant professor of geography, received a \$525,000 collaborative grant with the University of Kansas from the National Science Foundation's Geography and Spatial Science Program.

Ya Ding (Ph.D. '05 agricultural economics) and associate professor **Jeff Peterson** received an outstanding article award for "Comparing the Cost-Effectiveness of Water Conservation Policies in a Depleting Aquifer: A Dynamic Analysis of the Kansas High Plains," published in the May 2012 issue of the *Journal of Agricultural and Applied Economics*.

David Norman, professor emeritus, was named a distinguished fellow of the African Association of Agricultural Economists. He retired in 2007, after nearly 40 years as a faculty member.

Agronomy

Chuck Rice, university distinguished professor, and **Vara Prasad**, professor of crop physiology, have been selected to mentor Loan Thanh Le, from the University of Agriculture and Forestry in Ho Chi Minh City, Vietnam, as part of her Borlaug fellowship from the Global Research Alliance. **Rice** also has been appointed to the International Center for Tropical Agriculture board of trustees for his expertise on soils and climate.

Kraig Roozeboom, associate professor, was elected to the Crop Science Society of America Board of Directors. He also serves on the Crop Improvement Committee, which advises the United Sorghum Checkoff Board.

William T. Schapaugh Jr., professor and soybean breeder, received the Crop Science Society of America Fellow award for 2012 at the American Society

of Agronomy, Crop Science Society of America, and Soil Science Society of America annual meetings.

Animal Sciences and Industry

Awards from the 2013 American Dairy Science Association/ American Society of Animal Science Midwest Section: **Jennifer Minick Bormann**, an associate professor specializing in genetic improvement of beef cattle and quantitative genetics, received the Outstanding Young Teacher Award and **Robert Weaver**, K-State Research and Extension beef breeding and cow/calf specialist, received the Outstanding Young Extension Specialist Award.

Michael Dikeman, professor of meat science, and **Scott Schaake**, associate professor of beef cattle production and management and coach of the livestock judging team, were named Faculty of the Semester for fall 2012

Entomology

Holly Davis, insect diagnostician and doctoral student, earned the Friend of Extension Master Gardener Award. She identifies insects, spiders, arthropods, and small creatures through images or specimens sent to her intact or in pieces.

Kun Yan Zhu, professor, was named a 2012 fellow by the American Association for the Advancement of Science for distinguished contributions to insect sciences, particularly in insect molecular toxicology, and to scientific standards as an editorial board member of 10 scientific journals.

Grain Science and Industry

Subramanyam "Subi" Bhadriraju, professor, received the 2012 Award of Excellence in Integrated Pest Management, an international award given annually by the Entomological Society of America Foundation.

Professor **David Wetzel** and colleagues made four presentations at SciX 2012, the annual meeting for the Society of Applied Spectroscopy.

Xiuzhi "Susan" Sun, university distinguished professor, earned the Lifetime Achievement Award from the BioEnvironmental Polymer Society.

Horticulture, Forestry and Recreation Resources

Cheryl Boyer, nursery crop specialist, and **Bill Reid**, director of the Pecan Experiment Field – Chetopa, received awards from the American Society for Horticultural Science, Extension Division. Boyer garnered the Outstanding Website Award for *www.SustainableSubstrates.com*, and Reid earned the Outstanding Blog Award for *northernpecans.blogspot.com*. **Boyer** also earned the Communicator of the Year Award, an annual award from the Department of Communications and Agricultural Education.

Ted Cable, professor of recreation resources, was selected by Gov. Sam Brownback to serve on the Ecotourism Steering Committee, which will direct Kansas ecotourism enhancement efforts and guide tourism-related rural economic development strategies.

Chuck Marr, professor emeritus, received the 2012 UFM Grassroots Community Education Award for sharing his gardening expertise throughout the state. The annual award from K-State's UFM Community Learning Center recognizes someone in Kansas who has made an outstanding contribution to grassroots community education and learning.

Kimberly Williams, professor of greenhouse management, and **Cathie Lavis**, associate professor of landscape management, co-chair the K-State Faculty Exchange for Teaching Excellence.

Plant Pathology

Bill Bockus, professor, and **Megan Kennelly**, associate professor, were honored at the 2012 American Phytopathological Society annual meeting in Providence, R.I. Bockus earned the Lucy Hastings de Gutiérrez Award for excellence in teaching, and Kennelly received the Lee M. Hutchins Award for published research on

basic or applied aspects of diseases of perennial fruit plants.

Bikram Gill, university distinguished professor and director of the Wheat Genetic and Genomic Resources Center, received the Friendship Award from the People's Republic of China on Oct. 1. The award is the highest presented to foreign experts who make outstanding contributions that further China's economic and social progress.

Doug Jardine, professor, is part of an NCERA-208 (North Central Extension Research Activity) team that earned the 2012 Experiment Station Section Award of Excellence in Multistate Research for identifying management strategies for soybean rust, a fungal disease that poses a serious threat to U.S. soybean production. The award is sponsored by the National Institute of Food and Agriculture and the Association of Public and Land-grant Universities.

Northwest Research-Extension Center

The Irrigation Association named **Freddie Lamm**, professor and research irrigation engineer, as its 2012 Person of the Year for outstanding contributions toward the acceptance of sound irrigation practices.

Southeast Agricultural Research Center

Lyle Lomas, center director, received the Distinguished Service Award from the Research Center Administrators Society for his years of service to the organization

In Memorium

Clyde Wassom, 88, Manhattan, died Nov. 10, 2012. During his 38-year tenure in the Department of Agronomy, his research led to the release of several inbred lines of corn. He served as a consultant to several countries and supervised graduate students who are serving in university and industry positions in the United States and in their native countries.



Courtesy of Darla Thomas

Professor Michael Dikeman (BS '66 animal science, PhD '70 food science) retired in February 2013, after teaching in the Department of Animal Sciences and Industry for 42 years. He is shown at his retirement reception with his son Mark (BS '96 animal science, MS '02 agricultural economics), Kansas Farm Management Association fieldman; wife Earline (MS '72 chemistry), director of undergraduate laboratories; and daughter Rebecca Hendricks (BS '98 animal science, MS '00 food science), assistant vice president for international marketing for the National Pork Board.

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Home Phone_____ Email_____

Graduation Date(s)_____ Degree(s)_____

Employer_____ Title_____

Feel free to attach more information.



Susan Sun

USDA Grants Fund Renewable Energy Research

Agriculture Secretary Tom Vilsack recently announced four projects totaling \$25 million for research and development of next-generation renewable energy and high-value biobased products from a variety of biomass sources. K-State grain scientists will work on two of those projects.

Xiuzhi “Susan” Sun, K-State university distinguished professor, will lead a \$5.08 million project to make the oilseed crop camelina a cost-effective biofuel and bioproduct feedstock.

Researchers at Montana State University and the University of Wyoming will look for ways to enhance camelina production by optimizing cropping systems within wheat-based crop rotations in Montana and Wyoming, where preliminary work has already been done, Sun said.

Once harvested and processed, Sun will develop new technologies to chemically convert camelina oil and meal to a variety of adhesives, coatings and composites, thus adding value to the coproduct.

She will work with K-State’s Donghai Wang, professor of biological and agricultural engineering, who will conduct fractionation and processing optimization research in collaboration with industries for commercialization potentials.

“The overall goal is to make oilseed camelina a cost-effective bioenergy and bio-based product feedstock,” said Sun.

Praveen Vadlani, the Gary and Betty Lortscher associate professor of renewable energy, will lead K-State’s efforts on a \$550,000 subcontract on a \$6.4 million grant awarded to Ceramatec in Salt Lake City, Utah.

Vadlani’s team will study biomass made from switchgrass and sorghum, both bioenergy-rich crops. His research will focus on pretreatment and fermentation steps in the production cycle to convert biomass into drop-in biodiesel, jet fuel, and bio-lubricants.

“Along with making advancements to biofuels and industry, I’m looking at this as an opportunity to mentor undergraduate students,” Vadlani said.

Award Recognizes Barkley’s Commitment to Students



Andrew Barkley has added another award to his long list of accomplishments. In November 2012, he received one of two \$5,000 Dr. Ron and Rae Iman Outstanding Faculty awards sponsored by the K-State Alumni Association and the Imans.

Professor Barkley teaches courses in agricultural economics and public policy.

“Dr. Barkley has earned an international reputation for his commitment to students, to colleagues both within the university and around the world, and to the people of Kansas,” said his nominator, David Lambert, professor and head of the Department of Agricultural Economics.

“The strength of K-State’s teaching program is bolstered by the strong research focus of our faculty,” Lambert said. “Andy has been successful in establishing strong research programs. His accomplishments and continuing thoughtfulness in helping define tomorrow’s issues and educational needs are vital for shaping the future of this department and the university.”

Barkley joined the K-State faculty in 1988 and has received numerous university and professional teaching awards, including the CASE Kansas Professor of the Year in 1993, the university’s Presidential Award for Excellence in Undergraduate Teaching Award in 1997, and the Distinguished Scholar Award from the Western Agricultural Economics Association in 2008.

A photograph of Professor Candice Shoemaker, a woman with blonde hair wearing a blue long-sleeved shirt, smiling as she interacts with three graduate students in a greenhouse. The students, from left to right, are Anna Shinjo, Paula Suda, and Angela Anegon. They are all looking at a plant with large green leaves and red flowers. The greenhouse has a glass and metal frame, and other plants are visible in the background.

Aim high, love learning, and be innovative

Professor Candice Shoemaker examines plants in the greenhouse with graduate students, from left, Anna Shinjo, Paula Suda, and Angela Anegon.

It's official. Kansas State University Ranks No. 1 in Association of Public and Land-grant Universities (APLU) teaching awards. K-State has received 13 Excellence in College and University Teaching in the Food and Agricultural Sciences awards, more than any other university.

Each year, the APLU selects two national, six regional, and two new teacher award winners. In 2012, Candice Shoemaker, professor of horticulture and human health, earned a national award, and Dan Thomson, the Jones professor of production medicine, received a regional award.

The awards recognize outstanding faculty members for their ability as classroom teachers, use of innovative teaching methods, service to students and their profession, and scholarship.

Shoemaker (MS '82 horticulture) helped develop K-State's award-winning graduate certificate in horticultural therapy in 2008 and also led the development of the urban food systems specialization within the horticulture master's program.

Since joining the faculty in 2001, Shoemaker has taught many courses at the undergraduate and graduate

level and has high expectations for her students.

"My teaching philosophy is based on the premises to aim high, love learning, and be innovative," she said. "I believe learning is a lifelong process, and I strive to facilitate development of the skills in my students that will allow them to be successful lifelong learners."

Shoemaker's graduate students agree that she deserves the recognition.

"Dr. Shoemaker has a knack for instilling curiosity and a passion for learning in her students," said Angela Anegon.

"She patiently advised me through figuring out my own research interests and how to develop those interests into a career," added Paula Suda.

Anna Shinjo came to K-State from Japan to work with Shoemaker.

"I am very thankful to be a research assistant under Dr. Shoemaker," said Shinjo. "She is supportive, cheerful, and very open to foreign cultures. We are working on a comparative study about the current conditions of horticultural therapy in the United States, Korea, and Japan. Without Dr. Shoemaker — who has a really good alliance with researchers in these countries — I

do not think I could bring up this international-wide topic for my research.

"Through our work, I can see her strong passion to explore the relationship between horticulture and human health. It will be truly helpful when I go back to Japan after graduation."

Dan Thomson earned the regional APLU award. He teaches courses in feedlot production medicine, animal welfare, and clinical nutrition in the College of Veterinary Medicine.

"My philosophy is to motivate and transfer usable knowledge to students so they will walk out of my classroom wanting to continually learn new ways to improve animal well-being, food safety, and animal health," he said.

In addition to his teaching duties, Thomson is director of K-State's Beef Cattle Institute, which provides education, research, and outreach to beef producers.

The awards are sponsored by the APLU, U.S. Department of Agriculture, and the American Association of State Colleges and Universities. Shoemaker earned a \$5,000 stipend, and Thomson received \$2,000 to support their instructional programs.

Printing Merger Leads Way to Environmental Benefits, Zero Hazardous Waste

University Printing has instituted a new printing process that is better for the environment. By using new computer-to-plate equipment, changing

chemicals, and merging printing facilities, print jobs done on the K-State Manhattan campus now produce no hazardous waste.

The change was initiated by Rob Nixon, assistant director for University Printing in the Department of Communications and Agricultural Education.

He saw the merger of K-State Printing Services — previously located near Manhattan Regional Airport and in the K-State Student Union — and the department's Duplicating Center as an opportunity to lessen the use of harmful chemicals.

Nixon, who has served as the department safety officer since 1995, praised the entire University Printing staff for working together to research chemicals and processes to make the necessary changes.

"We still have some waste but no hazardous waste, and we recycle paper, cardboard, and pallets," Nixon said.

The merger process began in July 2010; however, equipment and

personnel from the off-campus facility were not physically united until September 2012. University Printing is now located in Dole and Umberger halls, with a copy center in the Union.

New technology has limited the need for some chemicals, but chemicals are still needed to clean the presses and maintain shop equipment.

"University Printing did 1,267 jobs on our printing presses last year," Nixon said. "That includes university, athletics, and college promotional materials; envelopes, letterheads, and business cards; calendars; newsletters, including many for K-State Research and Extension offices around the state; pocket portfolios; and materials for the sesquicentennial and commencements."

Nixon credits Greg LeValley, University Printing director; Mitch Ricketts, safety coordinator for K-State Research and Extension; Kelly Green, campus hazardous waste manager; and Steve Galitzer, director of public safety, for their help in making the transition to a cleaner process.



K-State Research and Extension

Rob Nixon, left, assistant director, and Rex Jones, print shop supervisor, examine a print job fresh off the press.

New Videos Explain the Importance, Methods for Preserving the Tallgrass Prairie



and why it's important to preserve this national treasure. Less than 4 percent of the original tallgrass prairie remains in the United States, and most of it is in Kansas."

"Preserving the Tallgrass Prairie" will air on Kansas City Public Television on April 14.

The second video, "Keeping Fire in the Toolbox," is 17 minutes

long and addresses a rural audience. It emphasizes the smoke management website (www.ksfire.org) with links to various tools and resources.

To get a broad perspective on the issues of preservation, burning, and smoke management, Pryor talked to individuals in addition to local, state, and federal agencies.

"I interviewed ranchers; the Nature Conservancy; Kansas Department of Wildlife, Parks, and Tourism; National

Weather Service; Kansas Department of Health and Environment; Johnson County Park and Recreation District; Johnson County Department of Health and Environment; Mid-America Regional Council; Children's Mercy Hospital; Missouri Department of Conservation; EPA Region 7; Kansas Rural Center; the U.S. Fish and Wildlife Service; Farm Service Agency; and Citizen's State Bank," Pryor said.

Carol Blocksme, research assistant professor in the Department of Agronomy, and Mike Holder, Flint Hills Extension District agriculture and natural resources agent, are credited as video producers. The project is funded by a grant from the Sustainable Agriculture Research and Education program.

Watch these videos and many more on the K-State Research and Extension YouTube channel www.youtube.com/user/KSREVIDEOS.



Dean and director John Floros welcomes Alumni Fellow Dana Peterson to campus.

Alumni Fellow Dana Peterson encourages students to be involved

Advocate for Agriculture

“Diversify your learning experience by getting to know students and faculty outside your chosen field and become involved in clubs and organizations,” Dana Peterson, 2013 Alumni Fellow for the College of Agriculture, shared that advice with students in the Introduction to Animal Science class on February 21.

Peterson also encouraged students to advocate for agriculture.

“There are about 300 million Americans and less than 2 percent are farmers and ranchers,” Peterson said. “The number of producers is down, but productivity has skyrocketed. We need to be able to talk about what we do.”

She spent the last three years as the chief executive officer for the National Association of Wheat Growers advocating before Congress and federal agencies on topics ranging from federal farm policy to environmental regulation, biotechnology, and transportation.

“I spent much of my time explaining the basics of agriculture and the issues involved with growing, selling, and transporting wheat, which accounts for 20 percent of calories consumed worldwide,” explained Peterson.

She said she was excited about a recent project involving the U.S. Farmers & Ranchers Alliance.

“The alliance brings people from all sectors of agriculture together to discuss how to communicate with one voice,” Peterson said. “Many not involved with agriculture are fearful of technology. They don’t understand the science and research involved and agriculture’s long history of caring for plants and animals.”

Before going to Washington, D.C., Peterson worked at Kansas Wheat for nine years and a short time at Kansas Farm Bureau, developing environmental programs. She also serves on the Dean and Director’s Advisory Council.

Peterson earned bachelor’s and master’s degrees in agricultural economics at K-State, while taking a broad range of classes. She also belonged to Block and Bridle, Collegiate Agri-Women, and was a member of the 1996 meats judging team.

“Traveling with the judging team gave me a broad perspective of agriculture in the Great Plains and

helped establish contacts that helped me in my career,” said Peterson.

She grew up on a farm near Smith Center, now run by two of her four brothers, and was active in 4-H and FFA.

Peterson said she found record-keeping for her 4-H projects came easy to her and influenced her choice to major in agricultural economics.

Peterson was on campus as the Alumni Fellow for the College of Agriculture. Each K-State college honors an alumnus in February. While on campus, they share their experiences with students and faculty.

In addition to speaking to the animal science class taught by her former professor Dave Nichols, Peterson addressed Kevin Donnelly’s Introduction to Plant Science class.

She was scheduled to meet with agricultural economics students and several other classes, but February 20 classes were cancelled because of a major snowstorm. She hopes to reschedule class visits and continue sharing her passion for agriculture.

Class Notes

The Hildebrand family was chosen as the 2012 K-State Family of the Year. Members include **Don** ('77 agricultural economics), **Alan** (BS '85 animal science), **Matthew** (BS '12 agricultural economics), and **Josh** (BS '12 agricultural technology management) and their families.

1952

Edgar Hinkle Jr. (BS, MS '57 agricultural education), Salina, is retired and enjoys his garden and playing and singing with various music groups.

1956

L. Dale Tindell (BS, MS '57 poultry science, PhD '61 animal science) Keene, N.H., retired from Dekalb Poultry.

1961

Dell Allen (BS animal science), was named Stockman of the Year at the 43rd annual Stockmens' Dinner.

1965

Richard Kruse (BS '65 animal science), Indianapolis, Ind., was elected to a four-year term on the KSU Foundation's Board of Trustees.

1969

Steve Irsik (BS agricultural economics) was elected to a two-year term as chair of the North Central Council for Agricultural Research, Extension, and Teaching group.

1971

Mark Coberly (BS agricultural economics), Gove, was elected to a four-year term on the KSU Foundation's Board of Trustees.

Terry Gogle (BS, MS '94 animal science), longtime K-State feed mill manager, retired on Sept. 15, 2012.

1973

Galen (BS animal science) and **Lori Fink** (BS '76 animal science) were named 2013 Honorary Members of the Kansas Angus Association.

1976

Leon Sylvester (BS animal science) and wife **Janet** (BS '78 home economics education) Wamego, were named 2012 Master Farmer/Master Farm Homemaker.

1977

Lynda Foster (BS dairy production) and husband **Gary** (BS mechanical engineering), Fort Scott, were named 2012 Master Farmer/Master Farm Homemaker.

Ed Frey (BS animal science/business administration), Wichita, was elected to a four-year term on the KSU Foundation's Board of Trustees.

1981

Connie (Pelton) Kays (BS '81, MS '84 animal science, BS '88 business administration) is serving a four-year term as Council for Agricultural Research, Extension, and Teaching liaison to the National Experiment Station Committee on Policy.

1982

Pam Van Horn (BS animal science, MS '96 adult occupational continuing education), K-State Research and Extension 4-H specialist, was selected as president-elect of the National Association of Extension 4-H Agents at the organization's annual meeting.

1994

Christine Wilson (BS agribusiness, MS '96, PhD '01 agricultural economics), assistant dean, was accepted for the 2012–2014 Food Systems Leadership Institute, a two-year executive leadership development program for academia, industry, and government.

1996

Capt. Blaine Jones (BS bakery science and management) is a member of the U.S. Air Force Thunderbirds air demonstration squadron. He was featured in an October 2012 Kansas Profiles www.kansasprofile.com.

2000

Jennifer Shike (BS agricultural journalism/animal science) is the assistant director for communications and marketing for the University of Illinois College of Agricultural, Consumer and Environmental Sciences. She won the \$2,500 2012 Andy Markwart Horizon Award, sponsored by the American Agricultural Editors Association Professional Improvement Foundation and John Deere.

2002

Ben Hopper (BS agricultural communications and journalism), K-State Student Union program adviser, received the 2012 National Association for Campus Activities Central Regional Conference Markley Award.

2003

Lucas Shivers (B.S. agricultural communications and journalism/elementary education) earned the 2012 Janet Sims Memorial Teacher of the Year Award sponsored by High Plains Journal. He teaches at the Bluejacket Flint Elementary School in Shawnee.

2004

Brent Buessing (BS animal science) was featured in the October 23 issue of *Progressive Dairyman* talking about his K-State connection and running the family dairy.

2005

Lucas Haag (BS agricultural technology management, MS '08 agronomy) is the new northwest area crops and soils specialist. He worked as assistant scientist at the Southwest Research and Extension Center – Tribune for more than two years.

2006

Audrey (Young) Monroe (BS agricultural communications and journalism/public health and nutrition; BS '10, dietetics) was part of a medical mission trip to Kenya in June 2012. The Kansas2Kenya medical team included nearly 30 physicians, nurses, pharmacists, physical therapists,

dentists, dietitians and pre-health students from Kansas. She is director of nutrition with the Kansas Beef Council in Topeka.

2007

Jaymelynn Farney (BS, PhD '12 animal science), Parsons, accepted the position of southeast area beef systems specialist in October 2012. Her husband Sylvester, (BS '06 feed science and management) works for Wildcat Feeds.

2009

Brook Bradbury (BS '09 animal science) Fort Scott, completed a master's degree in beef cattle reproductive physiology at Texas A&M University in December 2011. He is an agriculture extension agent in Grady County, Oklahoma.

Ryan Flaming (BS '09 animal science) is an agriculture and natural resources agent in the K-State Research and Extension – Harvey County office.

Kaitlyn Peine (BS agricultural communications and journalism) is the Douglas County 4-H Youth Development agent. She transferred from a similar position in Johnson County. She also had worked as Kansas 4-H horse program coordinator.

2011

Erin Mark (BS animal science) is the Kansas outreach coordinator for Farm Safety 4 Just Kids, a program that promotes a safe farm environment to prevent health hazards, injuries, and fatalities to children and youth. She was featured in an August 2012 Kansas Profiles www.kansasprofile.com.

2012

Neil Cates (B.S. animal science) is the agriculture and natural resources agent specializing in livestock production for the Post Rock Extension District. He is based in the Beloit office. He had worked in the K-State Purebred Beef Unit and Department of Animal Sciences and Industry farm maintenance shop, the C&W Ranch in Smolan, and Kern Livestock in Bavaria.

In Memorium

Glenn H. Beck (MS '38 dairy production), 97, Leawood, died Oct. 30, 2012. He served as the head of dairy sciences at the University of Maryland (1953–1956) then returned to K-State as director of the Kansas Agricultural Experiment Station. In 1960, he was appointed dean of agriculture, which evolved into the position of vice-president. He worked for the United States Agency for International Development, the Rockefeller Foundation, served as provost for agriculture and veterinary medicine at Ahmadu Bello University in Zaria, Nigeria, and helped establish Andhra Pradesh Agricultural University in India.

Virgil P. Carlson (BS '49, MS '70 agronomy), 91, Ellsworth, died Nov. 11, 2012. He graduated from K-State after serving in the U.S. Navy during World War II. He worked for the Cooperative Extension Service (1957–1982), serving in Lincoln and McPherson counties, and retiring as the agent in Ellsworth County.

Lester E. Griffith (BS '49 animal science), 89, McPherson, died Sept. 15, 2012. He served in the U.S. Coast Guard during World War II. He was a county agricultural agent in Wilson County (1949–1960) and Marion County from 1960 to his retirement in 1978. A Rock Springs 4-H Foundation memorial was established in his name.

Jack Graham (BS '50 dairy production), 83, Sonora, Calif., died June 17, 2012. He worked for Carnation Milk Farms in Washington before entering the U.S. Army in 1951. He had a dairy near his hometown of Columbus for seven years then worked for Pitney Bowes until his retirement in 1990.

Alvin "Pete" Maley (BS '50 agricultural education), 90, Emporia, died Feb. 23, 2013. He worked as an extension agent in Morris and Lyon counties and received the National Association of County Agricultural Agents Distinguished Service Award in 1971. He served as Lyon County Extension Director from 1972 until his retirement in 1987.

Richard Golladay (BS '52 agronomy), 82, Osborne, died Oct. 15, 2012. He became an assistant county agricultural agent in Pratt County in 1957 then worked as Hamilton County agricultural agent from 1959 to 1977. From 1979 until his retirement in 1995, he served as the Osborne County agricultural agent.

Jon Herod (BS '57 agricultural education), 77, Derby, died Dec. 22, 2012. He was appointed assistant county agricultural agent in Pawnee County in 1957 and became the Morton County agricultural agent later that year. In 1967, he transferred to the Kansas Farm Management Association, Southwest Area, where he served as an extension agricultural economist until his retirement in 1994.

Garry Brower (BS '67, MS '70, PhD '74 animal science), 68, Manhattan, died Nov. 26, 2012. In 1976, he accepted a position in the Department of Agriculture at Fort Hays State University. For 29 years he served as the faculty adviser to the FHSU rodeo program. He retired in May 2012.

Larry Dean Holz (BS '88 animal science), 47, Wamego, died Oct. 10, 2012. He worked for Farmers Home Administration, First National Bank of Wamego, and Stockgrowers Bank of Alma, and Landmark Bank in Wamego. Since 2007, he worked for USDA Rural Development.

Michael Jackson (BS '88 agricultural economics), 48, Cedar Point, died Jan. 10, 2012. He competed on the K-State rodeo team. He was a cattleman and district feed salesman for Vigortone Ag Products and Cargill Nutrena.

Kendra (Hill) Linnebur (BS '02 agricultural education), 33, Cherryvale, died Dec. 14, 2012. She was the agriscience teacher/FFA adviser at USD 484 Fredonia High School. She was named the 2008 regional Young Agricultural Educator of the Year and the 2012 Kansas Agricultural Educator of the Year. As the Agricultural Delta Instructor, she traveled to many states to help with FFA.

Back in the Classroom

Distinguished Young Alumnus Visits Campus



K-State Research and Extension

As a student sitting in an Umberger Hall classroom, Justine Sterling never imagined that a few years later she would be speaking to K-State students and describing how the president of the United States invited her to the Oval Office to offer her a job. But that's exactly what happened.

After graduating from K-State in 2007 with a degree in agricultural communications and journalism, she accepted an unpaid internship in the Office of Intergovernmental Affairs in the White House. Three months later, she moved to the Social Office that handles White House social events, such as state dinners.

"I thrive under pressure," Sterling said. "Working until midnight and weekends, the White House job was my life."

At the end of his second term, President Bush invited Sterling to the Oval Office and asked her to move to Dallas to work at the Bush Center. She accepted and packed her bags for Texas.

As part of her new job, she organized two large-scale inaugural events for service members wounded in combat. She also went to Africa twice to support President and Laura Bush's trips there as part of their global health program.

Sterling was on campus February 26 as an inaugural recipient of the Distinguished Young Alumni Award from the K-State Alumni Association Student Alumni Board. She gave a presentation in the K-State Student Union and spoke to several classes and FFA officers.

Emily Beneda, freshman in food science from Wilson and state FFA

president, was anxious to listen to Sterling.

"It was a great opportunity to meet with Justine," Beneda said. "Not only did she offer plenty of great advice, but listening to the stories about her journey from a small town in Kansas all the way to Washington, D.C., was both entertaining and inspiring. Her advice had a greater impact on me because she has been exactly where we are now, and she understands what we are going through."

With the presidential library opening in May, Sterling expects to move on to new opportunities.

"My ultimate goal is to find something that I'm passionate about and agree with the goals ... maybe planning the Olympics."

Departments Honor Alumni

Edward F. Prosser (BS '85), Omaha, Neb., received the Department of Agricultural Economics 2012 Distinguished Alumnus Award during the Student-Alumni Awards Banquet



Courtesy of Department of Agricultural Economics

Edward Prosser

on October 5. Prosser serves as vice president, agriculture trading for The Gavilon Group, LLC, a leading agriculture, fertilizer, and energy commodities management firm. He is responsible for directing Gavilon's proprietary agricultural trading activity on exchanges around the world and helping customers develop risk

management programs. He previously spent 25 years with ConAgra Foods, Inc. at ConAgra Trade Group and general manager at ConAgra Beef Company.

Craig Good (BS '75), Olsburg, was named the 2012 Animal Sciences and Industry Distinguished Alumnus on November 27. Good met with faculty and students to talk about his diversified farming operation and adopting new technologies. Good's purebred Duroc swine and Angus cattle are marketed under the Heritage Foods brand to top end restaurants on the East Coast. He is a member of the Livestock and Meat Industry Council Board of Directors and serves as their treasurer. He frequently hosts judging team workouts and Ag in the Classroom school groups at his farm, serves as a judge for the Academic Quadrathlon, and speaks at various classes and K-State Research and Extension meetings.

On October 26, the Department of Horticulture, Forestry and Recreation Resources honored **Michael G. Ensich** (BS '73 natural resources management) as the department's 2012 Outstanding Alumnus. Ensich presented a seminar for students and faculty. He retired from his role as chief of operations for the U.S. Army Corps of Engineers Directorate of Civil Works, where he supervised the corps' national program for operations and maintenance of navigation, which had an annual budget of \$3 billion. He had oversight of locks, dams, channels, and harbors, as well as hydropower, environmental stewardship and regulatory operations, which included 375 dams, 74 hydro plants, 11.7 million acres of land and water, 25,000 miles of inland channels, 102 deep draft and 655 other harbors.

The Department of Entomology recognized **Terry Mize**, FMC Corporation product development manager for North America, as the department's 2012 Distinguished



Michael Ensich, left, with K-State associate professor Sid Stevenson

Alumnus on November 2. At the FMC Corp., he is responsible for creating new crop protection solutions from concept to registration with the Environmental Protection Agency and market launch. Mize (MS '80, PhD '85), Olathe, presented a seminar on working in the private sector as an entomologist. He recommended that students investigate internships; look at communications, business, and marketing skills; and learn terminology.



Terry Mize

Craig Good



The Stanley Stout Center Opens



Students Tamar Adcock, left, and Katherine Valentine, right, held the ribbon while (from left) Loren Peppard, mayor of Manhattan; 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; Pat Koons, Livestock and Meat Industry Council president; Dee Likes, Kansas Livestock Association executive vice president; Rich Porter, Porter Cattle Company, Reading; and Dave Nichols, professor of animal science, cut the ribbon during the March 1 dedication of the Stanley Stout Center.



The new home for the student-run annual Bull and Heifer Legacy Sale is named for auctioneer and K-State supporter Stanley Stout, who died in 2006. The building's technology capabilities will benefit students and off-site audiences.

The facility is entirely funded by private donations, but additional funds are needed to furnish and maintain it. Major donor Rich Porter joked that he is well-known for his frugality.

"When word gets around that a tightwad like me thinks this is a good project, more will give," laughed Porter.

The Department of Animal Sciences and Industry commissioned a 6- by 9-foot mural depicting its history to hang in Weber Hall's Heritage Room. A limited number of artist's proofs, canvas prints, and paper prints will be sold to fund scholarships.



Wild for Ag Weekend

May 3–4, 2013

- ☐ **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 _____

Address _____

City _____ State _____ ZIP _____

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 3

- ☐ 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.
Golf reservations are due April 26, 2013.



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Wild for Ag Weekend May 3-4, 2013

Ag Alumni Scholarship Golf Tournament, Friday, May 3, 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 — 1p.m.

Awards Reception, Saturday, May 4 2013 Award winners

4 p.m. — K-State Alumni Center

Distinguished Alumnus: Steve Hunt, BS '81 agricultural economics

Outstanding Young Alumnus: Justin Gilpin, BS '98 milling science and management

David J. Mugler Outstanding Teaching Award: Greg Zolnerowich, professor of entomology

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

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