

IMPACT

Opening Fall 2015

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OF THE ENGINEERING COMPLEX

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from the Dean

What an exciting time to be serving the College of Engineering as interim dean! From my travels where I am meeting so many of our alumni and friends, to hosting home football games in our new suite facility in the West Stadium expansion, to presiding at this year's advisory council session and more—each day has brought new knowledge, new challenges and new opportunities to represent this dynamic college until a permanent dean is once again in place.

Much of the focus of the above activities, as well as this issue of Impact, has been about continuing to meet the goals of the University Engineering Initiative Act, or UEIA, with a special emphasis on our Phase IV building expansion. In these pages you will see architectural renderings and coverage of our groundbreaking event this past October.

We had a productive two-day advisory council meeting tied into the groundbreaking ceremonies, and I am so appreciative of the guidance and support this impressive group of men and women offer to our college—in addition to all of our alumni and friends, who will also be asked for their support as we move ahead with this \$40+ million project.

Along with expansion of our facilities, in support of the increasing number of graduates we are to produce, the UEIA will also be used for student enrichment and faculty enhancement. I know you'll enjoy reading about our award-winning student teams and accomplished faculty in these pages—both more than deserving of the benefits this initiative will provide for them.

You'll see news of our continued upward movement in the U.S. News & World Report rankings, as well as being named the top engineering school in the state for "return on investment" and 22nd in the nation overall by The College Database. You'll learn how Professor David Steward's research on the High Plains Aquifer resonated around the globe, and "view" upgrades to our BAE laboratories and a dedication of laboratory space in CHE in memory of two brothers who were alumni of the college.

So put another way, what's not to like about being the interim dean? I could not be more proud, nor humbled, to have this privilege at this time.



Gary A. Clark
Interim Dean of the College of Engineering



Above: Even Willie the Wildcat was on hand to celebrate the groundbreaking, above, **left to right**, with Gov. Sam Brownback, K-State President Kirk Schulz, Carl Ice, Mary Ice, and Interim Dean Gary Clark.

On the cover: Shovels hit the dirt at ceremonial groundbreaking activities for Phase IV of the engineering complex expansion.

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IMPACT

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Making waves

Water research evokes international response

One might say **David Steward** made a “splash” in the world of water.

A professor of civil engineering, Steward led a team of colleagues to investigate future availability of groundwater in the High Plains Aquifer, and how reducing its use would affect cattle and crops.

The resulting work of the four-year study, “Tapping unsustainable groundwater stores for agricultural production in the High Plains Aquifer of Kansas, projections to 2110,” was published last summer in the scientific journal *Proceedings of the National Academy of Sciences of the United States of America*, or PNAS.

PNAS, often cited as the oldest and premiere scientific journal in the U.S., and one of the three most prestigious in the world, has been in existence for 141 years. Since 1945, 81 K-Staters have been published in its pages—but no engineers.

Steward became the first.

“The paper was written with this journal in mind, but I never dreamed we’d get in it,” Steward said. “Yet K-State,

with its land-grant mission of education, research and outreach, is exactly the place that should be disseminating this type of information.”

Collaborators on the project included K-State faculty members Michael Apley, professor of clinical sciences; Stephen Welch, professor of agronomy; and Scott Staggenborg, adjunct professor in agronomy; K-State graduate and consulting engineer Paul Bruss, M.S., CE 2011; and Xiaoying Yang, former postdoctoral research assistant at K-State, now at Fudan University in China.

Funding was provided by the National Science Foundation, U.S. Department of Agriculture and K-State’s Rural Transportation Institute.

Using measurements of groundwater levels in the past and present day in the High Plains Aquifer region, Steward and the team developed a statistical model that projected groundwater declines in western Kansas for the next 100 years and the resulting effect it will have to cattle and crops, and the region’s overall economy.

“In the end, we offered an analysis of the consequences of change, both today and in the future, for a society dealing with a shrinking aquifer,” Steward said. “It was key to provide a scientific basis to support the public debate on water use.

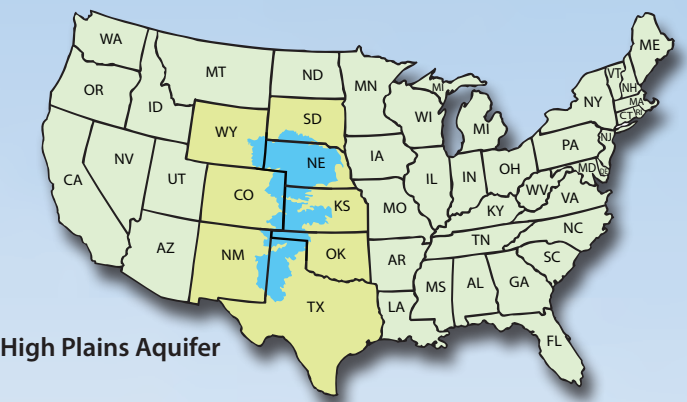
“I believe our research is resonating with people because they already accept the limitations on aquifer storage—they understand this and have been voluntarily reducing their water usage. People were ready for this type of data and its projected scenario, because it offers hope that something can still be done to preserve a way of life.”

Media reaction

A media flurry about the research began in late August when K-State’s News and Editorial Services released a story on the study.

From this came a national and international response resulting in print, radio and television exposure. Media outlets providing coverage were NPR, Scientific American, USA Today, The Economist, Associated Press, Fox News, UPI, Reuters, Clear Channel Radio, NBC News and many others—as well as international news sources in 13 countries including Uruguay, Germany, Japan, China, New Zealand, Korea, Poland and Arabia.

The team’s PNAS report was also selected as the research highlight



High Plains Aquifer

paper at the United Nations Educational, Scientific and Cultural Organization (UNESCO) Global Water Forum, and the UNESCO chair of water economics and transboundary water governance has invited Steward to write further about the work.

“We wrote the paper, in part, for family farmers who want to pass their land and the same opportunities they’ve had on to their grandchildren,” Steward said. “This struck a note with those in society who understand we are faced with important decisions about water that will have consequences for future generations.”

To learn more

The entire text of Steward’s paper can be read online at www.pnas.org/content/110/37/E3477.full

The initial K-State’s News and Editorial Services press release is available at www.k-state.edu/media/newsreleases/aug13/groundwater82613.html

A press release from K-State Research and Extension News is online at www.ksre.ksu.edu/news/story/Ogallala_depletion092513.aspx; as well as a YouTube video at www.youtube.com/watch?v=_sO6JRgQ6x4



David Steward
CE professor



Groundbreaking ceremony



A ceremonial groundbreaking for the Phase IV engineering complex expansion was celebrated Oct. 25. The planned 107,000-square-foot addition is a \$40 million project slated for completion in the fall of 2015. It will include offices and labs for the departments of computing and information sciences, and electrical and computer engineering; state-of-the-art classrooms; a 250-seat lecture hall; shared design and fabrication facilities for student competition teams; the Carl and Mary Ice Reception Center; and a larger, upgraded collaborative learning center.

The afternoon events began with remarks by Interim Dean **Gary Clark**, left, followed by comments from K-State President **Kirk Schulz**, above, as well as, seated left to right on the podium, K-State Provost **April Mason**, Kansas Governor **Sam Brownback**, Engineering Student Council President **Brendan Bishop** (behind the podium), and alumni and donors **Mary** and **Carl Ice**. Attendees then proceeded to the engineering plaza for the groundbreaking representation, followed by a reception and refreshments in the Serpan Lobby.

Graduate student advisory council

Noel Schulz, right, associate dean of research and graduate programs, visits with students at a reception honoring engineering graduates earning advanced degrees at a reception last spring in the K-State Union. The activity was planned and sponsored by the Graduate Student Advisory Council, or GSAC, a group formed by Schulz in fall 2012.

"In accepting the position to head the graduate programs," Schulz said, "one of my goals was to develop a sense of community among these students. I felt there was a real opportunity to bring them out of their laboratories to interact with one another in meaningful ways."

Original council members were recommended by their department heads and invited to serve on the GSAC by Schulz. The council hosted a welcome-back pizza party in September, and other events include panel discussions related to faculty expectations, guest speakers followed by Call Hall ice cream receptions, as well as social networking events both on and off campus.



Dean's advisory council Oct. 24-25, 2013



Current members:

- Sue P. Barsamian, EE '81
- Stan Clark, BAE '67, '71
- Casey S. Halsey, CNS '79
- Wayne A. Harms, CHE '76
- Kendall Harris
- Mark Hutton, CNS '77
- Mark A. Keenan, CNS '74
- Richard M. Kerschen, CE '64
- Mike King
- Steve P. Kirchhoff, ME '79
- Scott D. Love, CHE '80
- Dana Mathes, CHE '79
- Raj Nathan
- Thomas C. Paulson, CE '73
- Randy D. Pope, EE '77
- Vicki J. Scharnhorst, CE '82
- Kevin J. Schoen, EE '85
- Mark Schonoff, CS '88
- Doug Sterbenz, ME '85
- James L. Tadtman, CE '67
- Spencer Tholstrup, CHE '81
- Lou F. Von Thaeer, EE '83
- Cindy Wallis-Lage, CE '85
- Keith Warta, CE '84
- Warren Kent Wray, CE '68

EPAP Day features experts, corporate representatives



Students, faculty and corporate representatives, above, take advantage of networking opportunities at the 4th annual K-State Electrical Power Affiliates Program (EPAP) Day

Sept. 11 in the engineering atrium.

This year, EPAP Day featured an early career engineer's panel in Fiedler Auditorium where discussion centered on challenges for gradu-

ates just entering the industry as well as challenges facing the industry in the next three to five years. Activities also included a mini career fair as the electric power industry, its manufacturers and partners employ engineers and computer scientists from all of the College of Engineering degree programs.

Corporate representatives in attendance included Burns & McDonnell, Fishnet Security, Kansas City Power & Light, Omaha Public Power District, Schweitzer Engineering Laboratories, Segal and Westar Energy. Technical and human resources representatives from the companies were also on hand to discuss career opportunities and collaborations with university faculty and staff.



Rendering of entrance located at the intersection of College Heights Rd. and Denison Ave.

A legacy of excellence

The College of Engineering, charged with an initiative to increase our number of graduates to meet the demands for engineers in Kansas, has crafted a multi-faceted strategic plan that will complete the final phase of the engineering complex. Expansion of the building provides a unique opportunity for the college and its graduates, friends and corporate partners to contribute toward its completion.

At the corner of College Heights Rd. and Denison Ave. will stand an impressive structure as an anchor to the K-State campus. Completion of Phase IV will set the standard for learning, outreach, research innovation and excellence in 107,000 square feet of new space on four levels.

Naming opportunities present a choice occasion for you to help establish these much-needed physical resources, as well as a unique naming opportunity for honoring a loved one or promoting a corporate image.

With your support, we will mold the future leaders in the engineering profession. We invite you to explore the opportunities to invest.

Visit www.engg.ksu.edu/phaseiv or contact the engineering development office at (785) 532-7609 for more information.



Rendering of aerial view

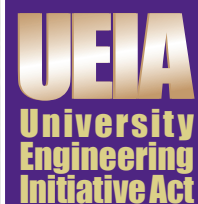
Enter Phase IV



Rendering of east atrium

“Higher education is a team sport. Our new building will fuel collaboration among students, faculty and industry, and help to define and differentiate KSU engineering.”

— Sue Barsamian
'81, EE



For more on the UEIA, visit www.engg.ksu.edu/ueia

The Phase IV project will create a portal to campus on an active corner across from Ahearn Field House and near the K-State Student Union. With east and west access, it will provide ease and convenience for students and visitors. It will bring all engineering students closer together, creating a more cohesive, collaborative learning environment.

GROUND FLOOR

To highlight what engineering is all about and make it more relatable and accessible to the public, design teams will be able to open the competition space areas to the public. This accessibility will unlock the world of engineering and design team creations to visitors on game days, at K-State Open House and other events.

FIRST FLOOR

The Carl and Mary Ice Reception Center will welcome prospective students, alumni and corporate partners in a relaxed and hospitable environment. The 250-seat auditorium will be one of the largest lecture halls on campus, and the Collaborative Learning Center creates a community of scholars who mutually benefit from student collaboration and achievement.

SECOND FLOOR

The second floor will house offices, classrooms and laboratories for the department of computing and information sciences, which will move from Nichols Hall. This will create a more cohesive college with greater extracurricular participation from students across all departments.

THIRD FLOOR

The third floor will provide a new home for the department of electrical and computer engineering. State-of-the-art teaching and research space will create exciting new opportunities for students to learn and collaborate with other engineering departments.



Research suites dedicated

Newly renovated engineering labs in the basement of Seaton Hall were occupied for use in the 2013 fall semester. Dedication ceremonies, hosted by biological and agricultural engineering, took place Oct. 4.

The remodel involves three shared laboratories for research involving hydraulics, bioenvironmental studies and bioprocessing. The open design of each lab promotes collaboration and sharing of resources among several engineering departments. For example, the hydraulics lab will be shared between BAE, CE and ARE/CNS teaching programs.

Another new feature in the 3,600 square feet of renovated space is the addition of 72 internet ports for networking instrumentation and main frame computers—prior to the renovation, only four ports had been available.

“The remodeling of the labs in Seaton Hall is a commitment by the biological and agricultural engineering department to expand undergraduate and graduate research opportunities,” said Joe Harner, BAE department head. “It is our goal to become a top 10 BAE department in alignment with K-State Vision 2025.”

Funding for the \$650,000 project was provided through the estate of Loren Dilsaver, BAE '40; the Kansas State University Agricultural Experiment Station; and K-State Administration and Finance Office.



Brothers memorialized with computer lab

The spring of 2012 brought the Alkhatib family more sadness than one family should have to bear — they lost their two sons and brothers, Weesam and Shwan. To honor the lives and memories of Weesam and Shwan, the Alkhatibs created the Alkhatib Brothers Computer Lab for the department of chemical engineering in the College of Engineering.

“We thought of how to help as many K-State students as we could, and that is when the idea for the computer lab was decided on,” said Aveen Alkhatib, Weesam and Shwan’s sister. “Weesam had graduated with a degree in chemical engineering, Shwan had taken some courses in the department—his degree is in electrical engineering—and I had also finished with a degree in chemical engineering. I remember spending endless hours in that computer lab, and we thought that renovating that room was a perfect way to give back to the university while still remembering Shwan and Weesam. This way, all of the students going through the program would benefit, not just a selected few.”

Shwan and Weesam both loved K-State’s sense of family and friendliness, and were especially passionate about K-State sports. Even after graduating and while busy with medical school and residency in Kansas City, Weesam would come to Manhattan to attend the games with his siblings.

“These games were more than just a football game to me,” Aveen said. “They helped me bond with my brothers in a way most siblings will never experience. I cherish these memories and am so thankful to K-State for this.”

Weesam, a vascular surgeon and instructor at Stanford University School of Medicine, battled a rare form of cancer. Shwan put his master’s degree studies at K-State on hold to go care for his brother because that’s what family did—take care of each other. Shwan passed away unexpectedly during this time and just a few weeks later, Weesam succumbed to his cancer. Weesam was 34 and Shwan was 25.

“We want every student to remember who Shwan and Weesam were as people,” Aveen said. “They were both incredibly loyal to their family and friends, and kind to all they met. When students are in this computer lab, we want everyone to work together and help each

“Because good people deserve good things, even if just for a day.”

— Shwan Alkhatib



The Alkhatib family

other in any way possible. Be kind to each other, help when you can, learn that your grades are not everything. Your character and integrity mean much more than a test grade.”

Weesam and Shwan are survived by their parents Kassim and Sorkel, and their sisters Aveen and Cheen.

—By Marissa Larson

KSU Foundation Communications

Student team competitions and awards

2 0 1 3

- Electrical
- HVAC

1
ARE

- Robotics
- 1/4-scale tractor

1
BAE

- Fountain wars

2
BAE

- Steel bridge

1
CIVIL

- Concrete canoe

2
CIVIL

- ChemE car

3
CHE

- Cyber defense

2
CIS

- Robotics

3
ECE

- Unmanned aerial systems

3
MNE

- Aero team

3
MNE

- Formula design

10
MNE



Architectural Engineering and Construction Science

2013 AEI National Student Design Competition:

1st Place, Electrical Category

Read more at www.k-state.edu/media/newsreleases/may13/aeichamps5613.html

2013 ASHRAE International Student Design Competition:

1st Place, HVAC System Selection Category



Biological and Agricultural Engineering

BAE robotics team:

1st place, 2013 ASABE annual international competition—seventh consecutive year of national championship

Read more at www.k-state.edu/media/newsreleases/jul13/robotics73013.html?id=9298&category=kudos

BAE quarter-scale tractor team:

1st place, 2013 ASABE 16th annual competition—K-State has placed in the top three in this competition, including nine firsts, 15 times in the last 16 years.

Read more at www.k-state.edu/today/announcement.php?id=8964&category=kudos



BAE fountain wars team:

2nd place, 2013 ASABE annual international competition



Civil Engineering

Steel bridge team:

1st place overall, 2013 ASCE Mid-Continent Student Steel Bridge Conference, Southern Illinois University; qualified for national competition in Seattle, Wash.

Concrete canoe team:

2nd place overall, 2012 ASCE Regional Conference

Chemical Engineering

ChemE car team:

3rd place, regional competition in Norman, Okla.; qualified for 2013 AICE national competition in San Francisco

Read more at www.k-state.edu/media/newsreleases/may13/chemecar52913.html?id=8870&category=kudos



Computing and Information Sciences

Cyber defense team:

2nd place, 2013 Rocky Mountain Collegiate Cyber Defense Competition, Denver, Colo.



Electrical and Computer Engineering

Robotic competition team:

3rd place, 2013 California Micromouse Competition, the University of California, San Diego

Mechanical and Nuclear Engineering

AIAA unmanned aerial systems team:

3rd place, 2013 Student Unmanned Aerial Systems competition, Patuxent River, Md. Read more at www.k-state.edu/media/newsreleases/jul13/suascomp7113.html?id=9123&category=kudos



SAE aero team:

3rd place overall, 2013 SAE Aero West Regular Class event, Van Nuys, Calif., with their plane The Spirit of Manhattan. This involved 37 international teams and the K-State team placed 2nd out of all U.S. teams.

SAE formula design team:

10th place, 2013 FSAE Michigan International Speedway Competition; 10th place in design category



Clark selected as interim dean of engineering



Gary A. Clark was appointed interim dean of the College of Engineering in May 2013. The announcement was made by K-State Provost and Senior Vice

President April Mason.

"I thank Gary for taking on the dean's responsibilities during this time of change," Mason said. "He comes to the interim position with leadership experience as a department head and senior associate dean in the college."

Clark will be point person for the College of Engineering on the University Engineering Initiative Act, serve on the Council of Deans

and represent the college in all its activities. He will also be responsible for completing the K-State 2025 strategic planning process for the college and will be instrumental in implementing the plans being developed. A national search is currently underway for the new dean.

In serving as senior associate dean of the College of Engineering since January 2009, Clark was responsible for oversight of the college academic programs, recruitment, scholarship programs, diversity and inclusion programs, computing services, communications services, and assurance of compliance with accreditation requirements and processes.

He joined the College of Engineering faculty at Kansas State in 1994 as an associate professor of biological and agricultural engi-

neering, was promoted to full professor in 1997 and was named to head the department in 2005. He had previously held academic appointments at the University of Florida.

Clark earned both a bachelor's and master's degree at the University of Florida, and a Ph.D. from Texas A&M University, all in agricultural engineering.

Dean search underway

A 21-member search committee, chaired by Peter Dorhout, dean of the K-State College of Arts and Sciences, began reviewing applications in September for the next dean of the College of Engineering. The group was established and charged in July with conducting a nationwide search.

"The dean of engineering will play an important leadership role in the future of Kansas State University and achieving our goal to be a Top 50 public research university by 2025," said Provost April Mason. "The new dean will join the college at a time of both opportunity and challenge, including the implementation of the University Engineering Initiative Act. I appreciate the ongoing work of this committee to find an exceptional individual to lead the College of Engineering."

For a complete position description, breakdown of committee members and additional information on the search, visit www.engg.ksu.edu/dean-search.

Dunn named interim department head



Associate Professor **William Dunn** has been named interim department head of mechanical and nuclear engineering. The appointment was announced by

Gary Clark, interim dean of the College of Engineering, who also said a search to fill the regular department head position is ongoing.

Dunn has a bachelor's degree in electrical engineering from the University of Notre Dame, and both master's and doctoral degrees in nuclear engineering from North Carolina State University. His research and scholarship areas include radiation measurement and applications, and mathematical modeling and inverse analysis.

He replaces Professor Don Fenton, who had served the past four years as department head and will return to his teaching and research duties in mechanical and nuclear engineering.

Edgar named university distinguished professor



James Edgar, department head and Tom H. Barrett professor in chemical engineering, has been chosen as one of Kansas State University's newest univer-

sity distinguished professors.

A University distinguished professor is a lifetime title and the highest honor the university bestows on its faculty. It is given following a university-wide competition conducted by the provost.

Edgar pioneered research on the

crystal growth, epitaxy, characterization and device fabrication of wide-band-gap semiconductors, including nitride and boride compounds rather than the more common silicon. His advancements have improved the materials used in microelectronic devices, such as laser diodes, that have revolutionized communications, transportation, lighting, medicine and consumer applications.

He has received more than \$9 million in research funding from the National Science Foundation, U.S. Department of Defense and U.S. Department of Energy. He has authored or co-authored more than 150 papers in scientific journals, edited

two books, and presented more than 25 national and international lectures. He has served as the William H. Honstead professor in chemical engineering. He also has received the Commerce Bank Distinguished Graduate Faculty Award, College of Engineering Research Excellence Award, Making a Difference Award and the Sigma Xi Outstanding Scientist Award. He spent sabbaticals at the Naval Research Laboratory and Radboud University in the Netherlands.

Edgar has served on numerous campus committees, has been a symposium organizer for the Materials Research Society, a National Science Foundation review panelist and a reviewer for NASA's postdoctoral program.

AGCO honored as 2013 Company of the Year

The College of Engineering Company of the Year, **AGCO**, was formerly recognized at the 2013 Career Fair Banquet on Sept. 24. Established in 1974, the Company of the Year event is hosted and sponsored by the K-State Tau Beta Pi Engineering Honorary Society.

AGCO is a global leader in the design, manufacture and distribution of agricultural machinery, supporting more productive farming through a full line of

tractors, combines, hay tools, sprayers, forage equipment, tillage, implements, grain storage and protein production systems, as well as related replacement parts.

Honorees of Company of the Year demonstrate engagement with the College of Engineering in the following ways: direct support for scholarships; faculty support/faculty chairs; hiring of K-State engineering gradu-

ates; research support; and other areas of involvement including advisory council service, team sponsorship, etc.

K-State alumni in attendance representing AGCO included David Disberger, vice president of product engineering, ME '90; Brian Olander, senior project engineer, BAE '00; Grant Good, product proving supervisor, ATM '07, M.S. agribusiness '13; and Mike O'Halloran, engineering manager, '72 BAE.

College of Engineering 2014 Events Calendar

Engineering Career Fair

. . . Feb. 11-12

Seaton Society Celebration

. . . March 29

Engineering Open House

. . . April 4-5

All-University Open House

. . . April 5

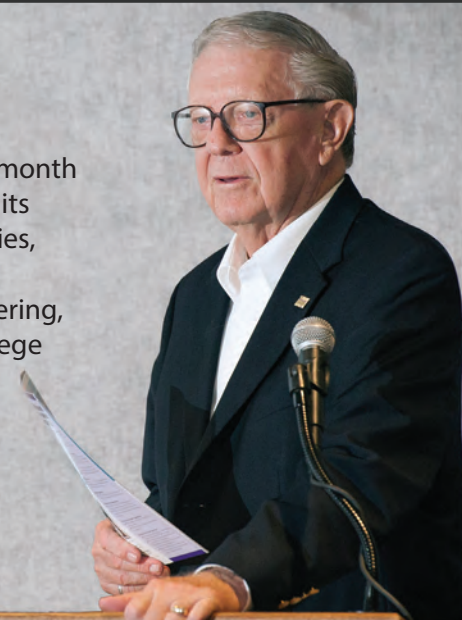
Spring Commencement

. . . May 16, Graduate School

. . . May 17, Undergraduates

Guest lecturer for 150th celebration

As part of K-State's 150th nine-month celebration, and more specifically its Brown Bag Lunch and Lecture Series, **Donald E. Rathbone, right**, dean emeritus of the College of Engineering, presented "The History of the College of Engineering" Oct. 2 in the Flint Hills Room at the K-State Student Union. Rathbone served as dean of the college from 1973 to 1997.



Recognitions

'61 Roger E. Smith (EE), Forest Heights, Md., enjoyed a 52-year career as an electronics engineer with the Federal Aviation Agency/Administration. His work included implementation and acquisition of a diversity of electronic equipment in the National Airspace System, supporting air-traffic control facilities across the U.S. such as radar, navigation, communication and automation equipments. He retired in 2013 to mentor his six grandchildren and volunteer in their schools in Maryland and Texas.

'77 Tim Hargrove (ME) recently celebrated his 10-year anniversary with Morgan Foods, Inc., Austin, Ind. He is currently serving as senior vice-president of operations for the company. He is married to Janet Meade Hargrove, KSU '75 ACCT.

'88 Yinlun Huang, (CHE M.S., Ph.D. '92), chemical engineering professor at Wayne State University, has received the 2013 National Association for Surface Finishing Scientific Achievement Award. He began this area of research—the theory and practice of electroplating, metal finishing and the allied arts—more than 20 years ago as a graduate student of Professor L.T. Fan, K-State chemical engineering.

'90 Tim Chadwick (CNS) has been named president and CEO for MMC Corp, Overland Park, Kan., effective Jan. 1, 2014. He has served the company 23 years as a project coordinator, project manager and vice president of operations for the subsidiary, MW Builders. He was named CEO of the company in 2011.

'04 Benjamin J. Gray (EE) has accepted a position as director of engineering at Lighthouse Imaging Corp., Portland, Maine, a world leader in medical optics and imaging solutions. He commented, "The pragmatic and well-rounded curriculum at Kansas State University has served me well throughout my career, and after 10 years in Kansas City, it will be an honor to represent K-State in New England."

Deaths

'51 Kyle L. Moran (AGE), Westerville, Ohio, died May 19, 2013. He worked for the USDA, Soil and Conservation Service, in Kansas and Ohio for 25 years and then 10 years for the Ohio Department of Natural Resources. He was a WWII veteran, Army Air Corps, and a member of the Kansas National Guard. Moran is survived by his wife, Betty Jane, three sons, two daughters, 12 grandchildren and nine great-grandchildren.

'66 Kuo-Kuang "Tony" Hu (CE M.S., Ph.D. '69), civil engineering professor emeritus, died June 28, 2013, in Palo Alto, Calif. He served as a professor of applied mechanics and civil engineering at Kansas State University from 1969 until his retirement in 2000. He authored or co-authored dozens of papers during his career and collaborated with colleagues on several patents, one being a stiffness decoupler which focused on developing a preventative method to minimize the destruction of structures during earthquakes. Hu is survived by his wife, Sue Hu, two sons, one daughter and four grandchildren.



'05 Drew Rose, (ARE), P.E., LEED AP BD+C, has been named a recipient of the 2013 "40 under 40" award from Consulting Specifying Engineer magazine. The program is sponsored by MTU Onsite Energy and recognizes those contributing to and guiding the building and engineering community. Rose is an electrical engineer with Integrated Consulting Engineers Inc., Wichita, Kan.

Faculty

Walter P. Walawender, chemical engineering professor emeritus, died July 7, 2013, in Manhattan, Kan. He began as an assistant professor of chemical engineering at Kansas State University from 1969 to 1975, and became an associate professor in 1975 until his appointment as professor from 1981 until his retirement in 2011. He loved the connections he had with K-State, whether through teaching, his student adviser roles or that of being a true Wildcat fan. He is survived by his wife, Paula, three daughters, two sons and eight grandchildren.



IMPACT

We are interested in following the career paths and accomplishments of our alumni, focusing on promotions, advancements, awards and honors, job changes and of course, retirements, as well as death notices. Please send your information in these categories to—

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U.S. News & World Report ranks K-State engineering in top 100—again



Kansas State University's College of Engineering is ranked 78th among the best undergraduate engineering programs in the nation among schools whose highest degree is a doctorate, in the U.S. News & World Report's 2014 Best Colleges list.

"To continue to be ranked on the U.S. News & World Report's Best Colleges list is a welcome and well-deserved recognition," said Gary Clark, interim dean of the College of Engineering. "It also is confirmation to the young men and women who are choosing to pursue an

engineering degree at Kansas State University that our institution, faculty and programs are respected and valued beyond our state borders."

K-State engineering scores well in return on investment

Kansas State University is receiving more plaudits for its engineering programs, and it's earning strong marks for what its graduates receive for their investment in their education.

The College Database is a non-commercial website that provides higher education information based on federal data and classifications by the Carnegie Foundation. The College Database ranked K-State 22nd in the nation for engineering, above MIT, Cornell, Ohio State and Rensselaer Polytechnic Institute.

U.S. News & World report released the graduate school rankings in March, which listed the university's engineering graduate program as no. 94.

"This is an outstanding recognition that validates what those involved in our engineering program have always known—the College of Engineering at Kansas State University does an exceptional job of educating and training the next generation of engineers for the benefit of society," said Gary Clark, the college's interim dean.

The College Database also ranked the university top in the state for the return on investment made by students, measured by the cost of tuition and a graduate's starting salary.

Faculty awards and honors | 2013 recipients



Left to right: David Ben-Arieh, professor, IMSE, Larry E. and Laurel Erickson Public Service Award; Xinming (Simon) Ou, assoc. professor, CIS, Frankenhoff Outstanding Research Award; B. Terry Beck, professor, MNE, Charles H. Scholer Faculty Award; Hani Melhem, professor, CE, Bob and Lila Snell Distinguished Career Award for Excellence in Undergraduate Teaching; Ronaldo Maghirang, professor, BAE, Clair A. Mauch Steel Ring Advisor of the Year; Asad Esmaeily, assoc. professor, CE, James L. Hollis Memorial Award for Excellence in Undergraduate Teaching; Hayder Rasheed, professor, CE, Myers-Alford Memorial Teaching Award

Notice of nondiscrimination

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Wildcat moves into permanent den



Visitors to Fiedler Library in the engineering complex may have noticed the “Wildcat Engineering—150 Years of Impact” fiberglass statue on display. Jim, CNSM ‘84, and Laura Johnson sponsored the statue for the original design and artwork as part of K-State’s recent 150th anniversary celebration and were also the highest bidders for it at the Wildcat March auction in September. The Johnsons have donated the purple wildcat back to the College of Engineering where it will remain as an exhibit in the library.

