

COLLEGE OF
ENGINEERING

FALL 2012

IMPACT

REFINE

KANSAS STATE
College of Engineering

EXPLORE

KANSAS STATE
College of Engineering



MESSAGE from the Dean

Excitement is in the air this fall as we celebrate our all-time-high enrollment of 3,172 undergraduates.

This has us charged up for two reasons:

- 1) Recruitment and retention efforts are paying off!
- 2) Recruitment and retentions efforts are paying off AND putting us on solid footing for reaching the goals of the University Engineering Initiative Act (UEIA) where, by 2013, we are to have increased our graduates by 163 students.

Enrollment and graduation numbers are just two of the metrics we'll be measuring for the Kansas Department of Commerce. In this fall 2012 issue of *Impact*, you'll find a rendition of a scorecard we are tasked with charting over the next 10 years to document our growth in several areas.

One of those areas is investment of corporate/private business/individuals dollars for scholarships and programming. Scholarships—such as the feature on the most recent gift from Warren and Mary Lynn Staley—really matter to our recruiting efforts as we must have these scholarship dollars to attract qualified students to our programs.

Private funding of this type also goes a long way in supporting the success of our student design teams, featured in our *Impact* pages as well. Don't miss the latest news

of their accomplishments. I was pleased and proud to accompany the quarter-scale tractor team onto the north end zone during the K-State vs. KU football game, when the College of Engineering was highlighted on the big screen at the stadium (see photo, left).

A major component of increased retention numbers is getting and keeping our students excited about career opportunities on the other side of an engineering degree. In a special advisory council session this fall, our distinguished alumni interacted with freshmen and sophomores, offering personal advice and encouragement on career paths open to engineering graduates.

Another avenue of retention, and metric on the scorecard, is increased engagement with Kansas companies through internship experiences. I'm sure you'll enjoy the engaging story of IE student Erin Vetter, and we'll be pursuing the availability of many more internship experiences as our numbers grow.

And then, we're graded on research funding, which along with benefiting our bottom line and enhancing the college as it moves toward its UEIA goals, also aligns with K-State President Schulz' goal of our university becoming a top-50 research institution by 2025.

Research highlights this issue include funding successes of our CIS cybersecurity team, as well as critical land management issues stemming from the DOD-funded research of Stacy and Shawn Hutchinson. This too is linked to recruitment and retention.

As we grow, the president and state are committed to support required facility upgrades and expansions to sustain the growth of our student body and the necessary increase in faculty. Adding to and retaining the talented faculty we now have will be key to our progress in meeting the objectives of K-State 2025 and the UEIA.

Last issue we offered a "sneak peak" at an early sketch of a planned new building, and this time we highlight a preliminary rendering of our planned new welcome center. Be sure, also, to check out the features on our new and renovated labs—these are first-rate facilities, staffed by award-winning faculty.

All these things, and many more plans and projects on the horizon, create an exciting atmosphere of celebration!

John R. English
Dean of the College of Engineering

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College of Engineering Events Calendar

<i>Engineering Career Fair</i>	<i>Feb. 12–13, 2013</i>
<i>Eyestone Lecture</i>	<i>March 26, 2013</i>
<i>G. P. "Bud" Peterson, President, Georgia Institute of Technology</i>	
<i>Engineering Open House</i>	<i>April 19–20, 2013</i>
<i>All-University Open House</i>	<i>April 20, 2013</i>
<i>Seaton Society Celebration</i>	<i>April 6, 2013</i>
<i>Spring Commencement</i>	<i>May 18, 2013</i>

IMPACT

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Cybersecurity projects awarded more than \$3M in funding

Cybersecurity researchers in the College of Engineering are securing their status as leaders in their field thanks to a strong summer of project funding.

In August the National Science Foundation awarded more than \$3 million in funding to support three projects in the department of computing and information sciences. The projects will help protect digital information and boost the nation's cybersecurity workforce.

"This was an exceptional month for the computing and information sciences department," said John English, dean of the College of Engineering. "Our cybersecurity faculty are top-notch in their field. Their recognition as such creates unprecedented opportunities for our cybersecurity programs and cements Kansas State University's reputation as a national leader in digital security."

As a leader, the university—through its research projects—will advance federal, medical and public cybersecurity networks, said Gurdip Singh, professor and head of the computing and information sciences department.

"It is very exciting to have the National Science Foundation recognize the importance of several Kansas State University projects that will benefit the U.S.," Singh said. "This is a huge investment in many of our talented faculty members who are addressing the security and vulnerability challenges facing the nation's various cyber infrastructures."

The projects are as follows:

- More than \$2.37 million was awarded to a project by Xinming "Simon" Ou, associate professor; Eugene Vasserman, assistant professor; John Hatcliff, university distinguished professor; Scott DeLoach, professor; and Singh. The project provides scholarships to university students who pursue studies and career paths in cybersecurity and information assurance. Postgraduation, scholarship recipients will intern for government security positions.
- More than \$482,000 in funding was issued to a project by Vasserman, Hatcliff and Dan Andresen, associate professor. Researchers are developing the theory and practice needed to build a flexible but standardized and secure communication network for the next generation of interoperable medical devices. The network would be used in hospitals and doctors' offices and will allow medical devices to securely communicate with each as they monitor and relay information about a patient's health.
- Nearly \$227,000 was awarded to David Schmidt, university distinguished professor and Lloyd T. Smith creativity chair in engineering, for a project that applies parsing and static-analysis techniques for detecting errors and vulnerabilities in online web server scripts that dynamically generate web pages. The web pages themselves collect sensitive online data from users. Web server scripts are notorious for generating faulty web pages that leak data, Schmidt said. The project is focused on improving the quality of the scripts and the security of web-based data processing.

Training cybersecurity professionals

Millions of people depend on the Internet every day and cyber criminals are counting on that. To help counter the threat, the National Science Foundation has awarded \$2.3 million to the College of Engineering department of computing and information sciences to provide scholarships to qualified students interested in becoming cybersecurity and information assurance professionals.

According to Xinming "Simon" Ou, CIS associate professor, many systems society uses every day—smartphones, online companies, media communications, transportation, electricity and hospital systems— are highly dependent on a very fragile cyber infrastructure that, if hacked into, could be disastrous and shake people's sense of security like a cyber version of Pearl Harbor or 9/11.

Read more at www.k-state.edu/media/newsreleases/sept12/cybersecsch91812.html.

Keeping medical devices secure

What if you could shut down several emergency rooms simultaneously without leaving your own home? How about "hacking" a pacemaker and reprogramming it to cause a heart attack?

Although these could be scenes from an espionage film, they are also some of the plausible scenarios that College of Engineering cybersecurity experts are working to prevent.

Read more at www.k-state.edu/media/newsreleases/sept12/medhack90512.html.

Taming the virtual Wild West

Nearly undetectable, cyber criminals have turned the Internet into a virtual Wild West. Helping to save the day is College of Engineering cybersecurity expert Xinming "Simon" Ou.

Although he may not be John Wayne, Ou, associate professor of computing and information sciences, is developing hacker-detection tools in collaboration with Hewlett-Packard Co., or HP, as part of the HP Labs Innovation Research Program. Kansas State University is one of only 46 universities in the world to receive the 2012 award.

"If a burglar breaks into your house, you can see them and call the police, but if a hacker taps into your computer, how do you know and who would you call?" Ou said.

Read more at www.k-state.edu/media/newsreleases/sept12/hpaward92512.html.

Left to right: John Hatcliff, David Schmidt, Scott DeLoach, Gurdip Singh, Xinming "Simon" Ou, Dan Andresen and Eugene Vasserman

TEAMS

Robotics team takes title

Kansas State University's student robotics team (below) has clinched its sixth consecutive championship in the American Society of Biological and Agricultural Engineers' international student robotics competition held this summer in Dallas, Texas. K-State has never lost the competition.

The student robotics competition is aimed at designing solutions to common agricultural issues. Automation of cattle feeding in a feedlot was this year's challenge. Teams had to program a robot that could disperse different, prescribed amounts of feed— pellets— to 24 feeding pens on an 8-by-8-foot board. Points were awarded for speed, accuracy and elegance of design.



Photo courtesy of Jed Barker

Fountain wars—battle to a second-place finish

The K-State fountain wars competition (below) team finished second in the competition at the American Society of Agricultural and Biological Engineers annual international meeting this summer in Dallas, Texas.

Fountain wars is a hands-on, real-time design competition where students design and model a fountain to complete technical tasks. The model is then built and tested under time limits at the competition, and a written report and oral presentation must be provided. The design also must be aesthetically pleasing.

Photo courtesy of Jed Barker



Three championships

A K-State student engineering competition team (above) won three of six first-place awards in the ASCE Charles Pankow Foundation Architectural Engineering Student Competition in Omaha, Neb., hosted by the Architectural Engineering Institute of the American Society of Civil Engineers. K-State was the first and only school to date to place finalists in all five categories and win the two top overall awards.

The competition challenged students to address design issues for a new government office building in Omaha. The teams had to assemble design development packages that addressed the design and construction challenges of the high-performance federal building with a high level of security requirements.

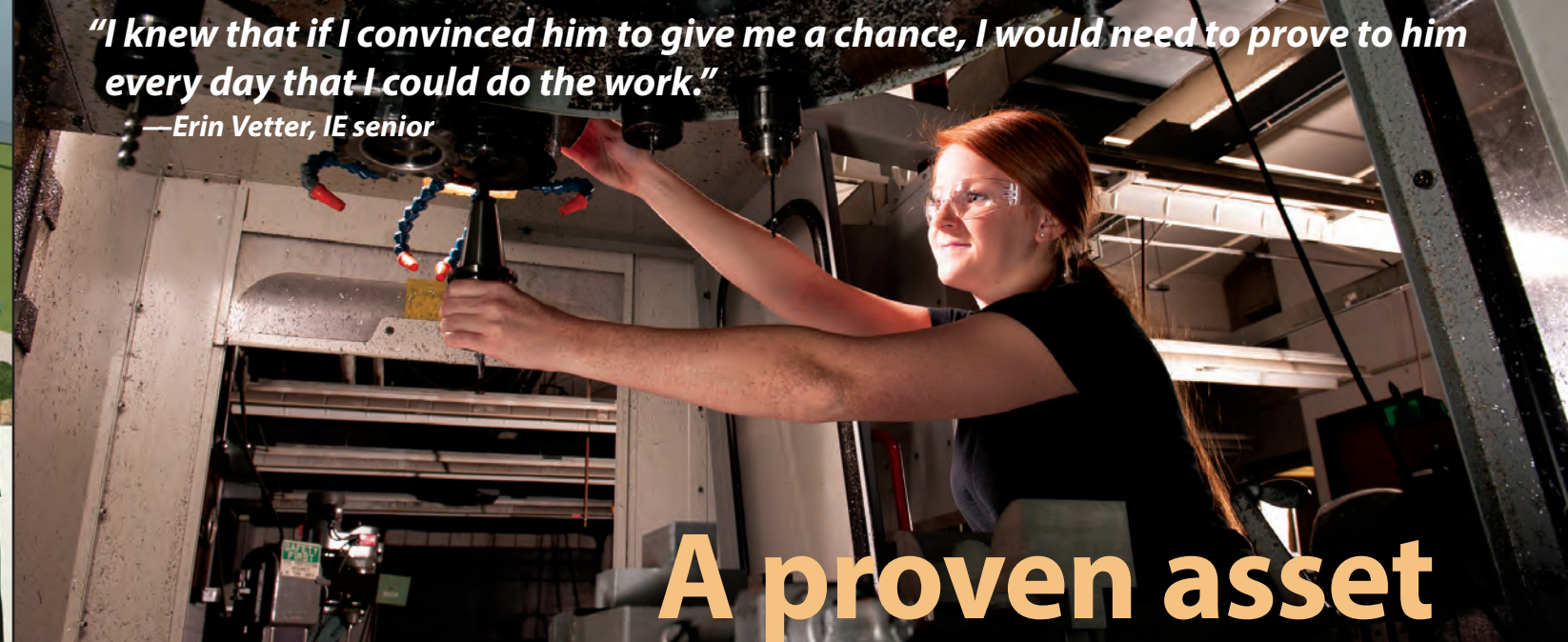


Top three once again!

Small tractors led to big success for the Powercat Tractors Quarter-Scale Design Team when members of the A Team (above) took second place in the American Society of Agricultural and Biological Engineers' 15th annual International Quarter-Scale Tractor Student Design Competition May 31–June 4 in Peoria, Ill. It was the 13th time in the past 14 years that the team has finished in the top three at the competition.

"I knew that if I convinced him to give me a chance, I would need to prove to him every day that I could do the work."

—Erin Vetter, IE senior



A proven asset

When Erin Vetter approached Bob Gregory about an internship, he suggested a three-day work week.

After all, his company, Turner Uni-Drive, a small machine shop that designs and manufactures industrial gearboxes, was a harsh, dirty environment and he wasn't sure how this petite young lady would hold up under those conditions. Not to mention, the company had never had an intern and he wasn't quite sure what to do with one.

As it turns out, Gregory changed his mind after the end of Vetter's first shift—not just about her ability to do the job, but also about the value an intern could bring to his company. He put her on full time.

Vetter, now a senior in industrial engineering, knew the importance an internship could make on her future. Because she had come to the major late, she felt it especially important she secure one during the summer of 2012.

She had just completed Intro to Manufacturing Processes where she'd learned to use a computer numerical control (CNC) machine. It was a class she enjoyed. A friend mentioned that her dad's company used CNC machines. That friend was Gregory's daughter. Vetter decided to give him a call.

Gregory knew Vetter through his daughter. He had watched her grow up playing soccer in the Kansas City area. From that he knew she was persistent and a hard worker. After first trying to discourage her, he relented and told her to come in.

"I knew that if I convinced him to give me a chance, I would need to prove to him every day that I could do the work," Vetter said.

And that she did.

Gregory started Vetter with operating the machines, loading and unloading parts. Though manual work, it required a good understanding of the machine's operation as it utilized multiple tools and anywhere from 10 to 50 offsets.

Vetter was a quick learner. Soon she graduated to setup and eventually delved into programming the machine.

But Vetter wanted to do more. She observed employees frequently searching multiple workstations for the tools they needed. She suggested a time study which eventually led to the development of a tool list for each machine.

"Many of the employees had been doing their jobs the same way for 10 or more years," Vetter said. "Implementing small changes increased worker efficiency and reduced machine downtime."

"While I'm sure I could have suggested other changes if I had been further along in my training, it's cool to look back and see I did make a real difference in the productivity of the company."

For his part Gregory, who graduated from K-State in 1987 with a business finance degree, was very pleased with his first internship experience.

"Erin brought a fresh outlook to an old process and made a big difference in a short amount of time," he said. "She was eager to pitch in at any level and worked herself into increasing roles of responsibility."

"Really, I'm surprised at how well it worked out. It was a good move for us."

So much so that Gregory is planning to offer internships in the future and encourages other small businesses to do the same.

"Internships are certainly a great learning opportunity for the student, but they can also be of real benefit to the company," he said. "Students can bring new ideas and an eagerness to contribute to your workplace which could translate into lasting changes that can positively influence your bottom line."

Internships like that offered by Gregory and Turner Uni-Drive are precisely what John English, dean of the College of Engineering, hopes to see more of. This is because one of the metrics the college will be evaluated on under the University Engineering Initiative Act (UEIA) is number of students with at least one internship or co-op experience.

"Now more than ever, internship experience is a priority for the college," he said. "Oftentimes internships can turn into full-time employment, which is one of the UEIA goals for the state."

Kansas companies or businesses interested in posting internships, can contact Debbie Owens, Career and Employment Services, 785-532-1681 or dowens@ksu.edu. She will provide access to the CES account which will allow clients to post jobs, manage recruitment efforts, schedule on-campus interviews, review resumes, e-mail potential candidates and register for career fairs.

—Tina Long, IMSE project coordinator



Ribbon cut on \$3M clean room facility

A ribbon-cutting ceremony for the new \$3 million world-class clean room facility in Ward Hall took place Oct. 15. U.S. Rep. Tim Huelskamp, other government representatives and members of the university community attended the dedication.

The new clean room is located in the Semiconductor Materials and Radiological Technologies, or S.M.A.R.T., Laboratory, dedicated to the research and development of new and innovative radiation-detector technologies.

The class-100 clean room, largely funded and supported by the Defense Threat Reduction Agency, spans 1,000 square feet and is dedicated to fabrication of innovative radiation detectors and development of mass production processes needed to provide the detectors at affordable prices.

The S.M.A.R.T. laboratory is directed by Douglas McGregor, professor of mechanical and nuclear engineering, and has been



Left to right: Phil Ugorowski, MNE staff; Rep. Tim Huelskamp; and Douglas McGregor, MNE professor

supported by more than \$16 million in numerous government and corporate sponsors, including the Defense Threat Reduction Agency, National Science Foundation, the U.S. Dept. of Energy Nuclear Engineering Education Research Program and the U.S. Dept. of Energy National Nuclear Security Administration.

Renovated CHE laboratories celebrated

The department of chemical engineering hosted an open house on Sept. 15 to celebrate the completion of its newly renovated laboratories.

The laboratories, on the second floor of Durland Hall, were updated for safety and to enable modern chemical engineering research. With changes in safety standards and advancements in engineering research, the facilities were not adequate for current and future activities. They now allow for

specialized research rarely done in university settings, said James Edgar, professor of chemical engineering and department head.

"The renovated laboratories were designed to encourage greater collaboration between different faculty and their student research groups," Edgar said. "The improved facilities and the greater ability to collaborate will make the department more competitive when applying for research grants."

The renovations involved nine laboratories and 10 student offices that were combined to create nine new laboratories. The more spacious laboratories contain 14 fume hoods and a new dedicated air-conditioning system that will alleviate chronic problems in maintaining an appropriate temperature and humidity level.

The renovations cost \$2.4 million and were done with a \$1.6 million grant from the National Science Foundation, made under the American Recovery and Reinvestment Act of 2009, and \$800,000 from the university, and corporate and individual donors.

Keith Hohn, professor of chemical engineering, guides a tour through a renovated lab.



6 College of Engineering



Noel Schulz

Charged for the future: Burns & McDonnell Smart Grid Lab

A ribbon-cutting ceremony and dedication for the new Burns & McDonnell Smart Grid Lab took place Oct. 23 in the department of electrical and computer engineering.

The lab was made possible through a donation from Burns & McDonnell, the international engineering, architecture and consulting company based in Kansas City, Mo., and from the company's many employees who are Kansas State

University alumni. In addition, several companies in the power industry have or are in the process of making vital equipment and furnishing donations to the lab.

Noel Schulz, LeRoy C. and Aileen Paslay Professor of Electrical and Computer Engineering, will be the lab's director. It will be home to her research in smart grid technologies, power systems, energy conversion, application of computer programs

to power engineering, application of intelligent systems to engineering problems and more.

Schulz, who is also the associate dean for research and director of the Engineering Experiment Station, played a major role in facilitating the lab as director of the university's Electrical Power Affiliates Program—of which Burns & McDonnell is a founding member.

Electrical Power Affiliates Program expands

The Electrical Power Affiliates Program, or EPAP, an industrial consortium within the College of Engineering, recently added three new companies.

EPAP supports student and faculty activities through a partnership with companies in the electric power industry. Noel Schulz, the college's associate dean for research and graduate programs, directs the program.

Financial support from the compa-

nies sponsors student travel to industry facilities, student presentations at conferences and research that connects to the needs of power affiliates members. The program also supports undergraduate and graduate student projects, and extends opportunities for internships and future employment opportunities in the power field. The program's four founding companies are Burns & McDonnell, Nebraska Public Power District, Oma-

ha Public Power District and Westar Energy.

Joining these companies at the executive level this fall was Kansas City Power & Light, or KCP&L, based in Kansas City, Mo. Joined at the member level was Schweitzer Engineering Laboratories, or SEL, based in Pullman, Wash., and Segal Inc., based in Overland Park.

For more information on the program, visit www.k-state.edu/epap.



Seaton

SOCIETY

Seaton Society members are recognized annually for their gifts of \$500 or more to the College of Engineering. The following contributed between July 1, 2011, and June 30, 2012:

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Every effort has been made to produce a comprehensive listing of donors for the calendar year July 1, 2011, through June 30, 2012. We apologize for any incorrect listings, misspellings or omissions, and extend our sincere thanks for your support. Questions about the donor list should be directed to Lori Rogge, Senior Director of Development, College of Engineering, Kansas State University Foundation, 1058 Rathbone Hall, Manhattan, KS 66506; 785-532-7539 or 800-432-1578.

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The Seaton Society awards lifetime membership to its founders, those who have made a commitment in excess of \$100,000 to engineering education excellence.

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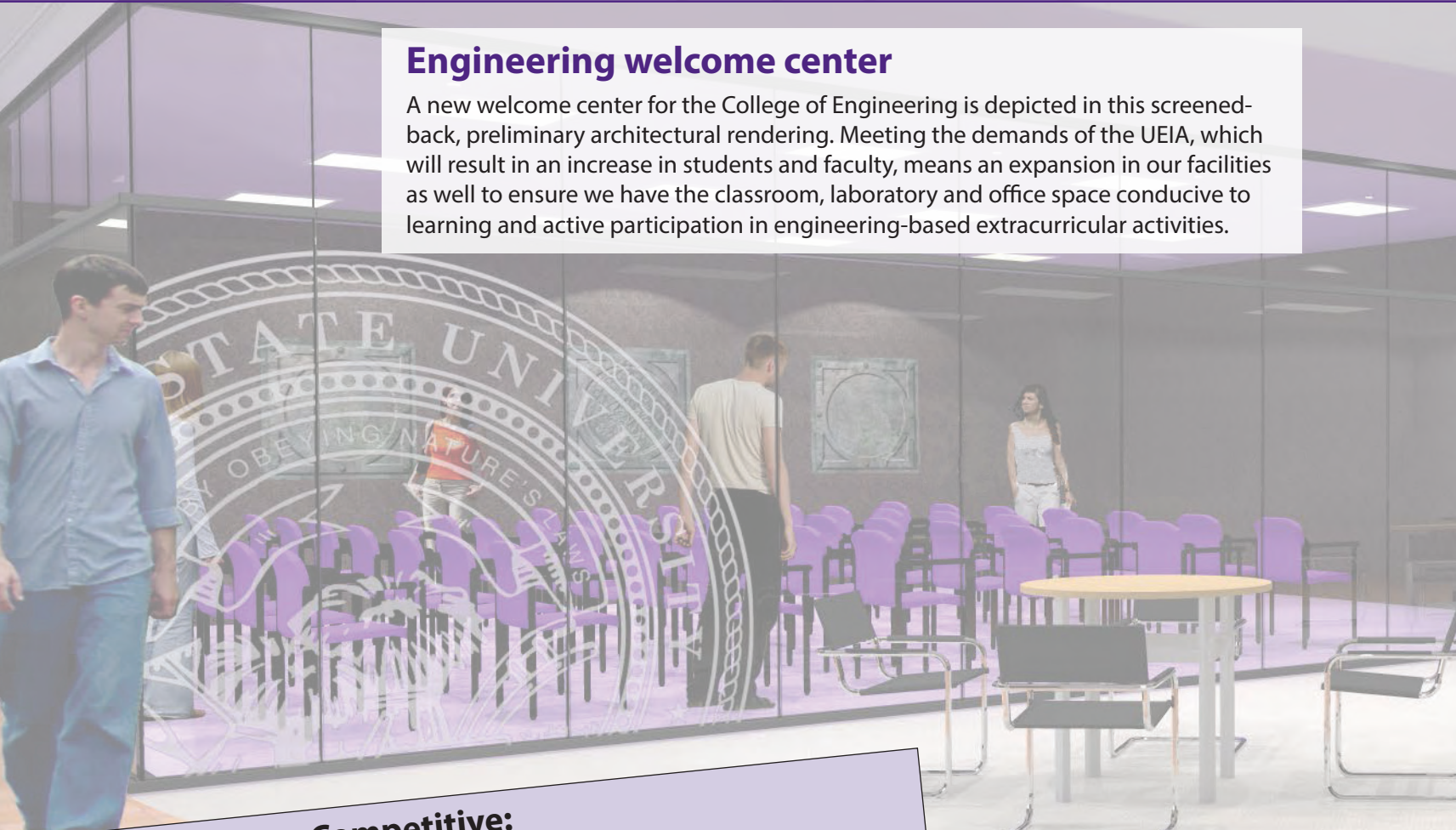
* = deceased

University Engineering Initiative Act

UEIA

Engineering welcome center

A new welcome center for the College of Engineering is depicted in this screened-back, preliminary architectural rendering. Meeting the demands of the UEIA, which will result in an increase in students and faculty, means an expansion in our facilities as well to ensure we have the classroom, laboratory and office space conducive to learning and active participation in engineering-based extracurricular activities.



Scholarship gifts—a spearhead for expansion

Increased funding for scholarships is essential to reaching our UEIA goals. Efforts to recruit and retain a well-qualified student body, and see that group through to graduation, are enhanced tremendously by scholarship gifts.

Last spring, Warren, EE '65, and Mary Lynn Staley, Elem Ed '65, pictured above with scholarship recipients and Dean English at a Sept. 6 reception in the Rathbone Hall atrium, made a commitment of \$1 million over the next 10 years, to establish the Warren and Mary Lynn Staley Engineering Excellence Scholarship.

This unrestricted scholarship gift for engineering students provided \$100,000 for the 2012–2013 school year, where 50 students were awarded scholarships this fall from the Staleys' commitment:

- Four students received Study Abroad funds of \$1,000 each (with more to follow this spring).
- Twenty-one new transfer students received \$1,000 for excellent academic performance on their transfer courses.
- Twenty-five continuing students received \$1,250 to \$1,500 for academic performance.

"We know you will leverage this investment in your education in the near future," Mary Lynn Staley told the students during brief remarks at the gathering. "We love to back people who are good at what they do."

"I am grateful for the scholarship I received," said Natalie Truman, senior in civil engineering, and recipient of the Staley Scholarship this fall. "Scholarships helped me get where I am today, and it is so exciting to meet the Staleys in person."

Truman interned with Cargill, the company from which Warren Staley retired as chairman and CEO in 2007, and has recently accepted a position with them after graduation.

Keeping Kansas Competitive: Engineering Expansion Scorecard

University Kansas State University

REQUIRED OUTCOMES	RESULTS BY ACADEMIC YEAR											
	BASELINE '08	'11-12	'12-13	'13-14	'14-15	'15-16	'16-17	'17-18	'18-19	'19-20	'20-21	'21-22
NUMBER OF BACHELOR GRADUATES												
Fall 20th day enrollment												
Number of engineering graduates												
Number of engineering graduates by majors												
ENGINEERING INDUSTRY PARTNERS FIND TALENT												
Number of graduates employed in Kansas												
Average starting salaries of graduates in Kansas												
SUCCESS INDICATORS FOR ENGINEERING												
INVESTMENT OF CORPORATE PARTNERSHIP DOLLARS												
Scholarships/programming from corporate/private businesses/individuals												
Research funded from corporate/private businesses/individuals												
Research from other sources												
Expenditure endowment gifts												
CORPORATE ENGAGEMENT STRATEGIES WITH COMPANIES IN KANSAS												
Number of agencies with at least one internship/coop experience												
FACILITY UPGRADE AND EXPANSION TO SUPPORT GROWTH												
New space committed to engineering labs												
New space committed to engineering classrooms												

Modified version for simplification

The College of Engineering, in compliance with UEIA guidelines, will provide the Secretary of Commerce with an annual report on engineering expansion progress. The report, represented by a modified version at left, will include quantities on core standard outcomes and may include additional metrics for each university's individual engineering and strategic activities.



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

Managing military maneuver areas

“We put the right information into the right hands for timely management decisions.”

This was the summation of Stacy Hutchinson, associate professor of biological and agricultural engineering, concerning the joint, DOD-funded project she and her husband, Shawn Hutchinson, associate professor of geography, are currently engaged in at Fort Riley.

The U.S. Army Integrated Training Area Management (ITAM) program is charged with managing maneuver areas at Fort Riley to establish procedures for optimum, sustainable use of training lands by implementing a uniform land management program that inventories and monitors land conditions.

The Hutchinsons’ grant chiefly involves the range and training land assessment (RTLA) subprogram with the responsibility of monitoring natural resources within training lands and identifying when, and where, a variety of potential environmental or safety issues might prevent their use by military units.

Shawn’s area of expertise—satellite remote sensing and geographic information systems (GIS)—comes into play with his development of a digital mapping web application which automates spatial data acquisition and synthesis processes needed for monitoring. That mapping system, viewable through a simple Internet browser, allows military commanders and land managers to get a real- or near-real-time view of military training land conditions to improve training plans and prioritize needed rehabilitation efforts.

Stacy’s specialties of hydrology and erosion prevention have helped to identify and shape the critical landscape metrics being evaluated and mapped. Depending on what is being evaluated, a snapshot of conditions for those metrics is produced and analyzed in time intervals ranging from minutes to one year.

“We are able to integrate our knowledge of engineering principles, ecology, hydrology and geographic information science (GIScience) and apply them to the study of land conditions and vegetative health. This provides Fort Riley with important information about the condition of their training lands when they need it—as opposed to waiting for an end-of-year report,” she said.

An example within the monitoring program implemented by the Hutchinsons includes the study of current vegetation condition and trends. Presence of healthy vegetation and continuous vegetative cover is key to training land availability and access, as it helps reduce unwanted soil erosion, prevents formation of dangerous gullies, and provides natural cover for soldiers and vehicles during training exercises.

Under the Fort Riley RTLA program, vegetation health is routinely monitored by collecting and analyzing time-series vegetation “greenness” images acquired by satellite- track seasonal vegetation development, identifying normal and extreme vegetation conditions, and evaluating current vegetation conditions versus long-term average conditions. The “near-real-time” nature of their effort is reflected in that this assessment takes place every 16 days.

“Using GIS as the information technology backbone of our monitoring effort allows us to automate most aspects of a typical data acquisition, modeling and analysis, and visualization workflow,” Shawn said. “This decreases the time needed to convert raw data to valuable information for decision making.”

“We put the right information into the right hands for timely management decisions.”

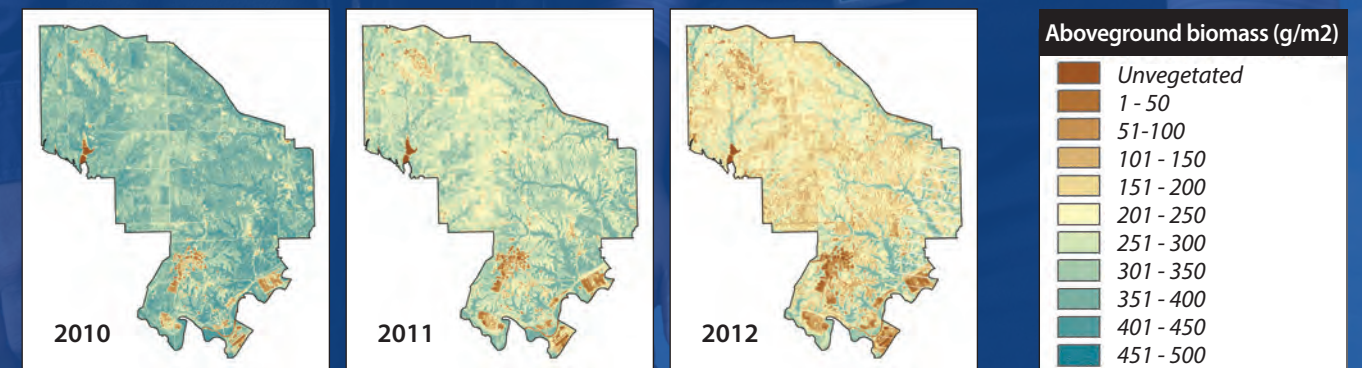
Similar to Fort Riley, many of the same analyses are also performed for the nearby Konza Prairie Biological Station. “We also monitor Konza, where no military activity takes place, as a comparison study site,” Stacy said. “This helps us better assess the impacts of military training on the land.”

Both Stacy and Shawn are former Army officers who spent much of their military careers at Fort Bragg, N.C., and Fort Riley, respectively. They bring a measure of “insider” insight into the unique informational needs of the military and how principles of environmental sustainability can work to the Army’s operational advantage.

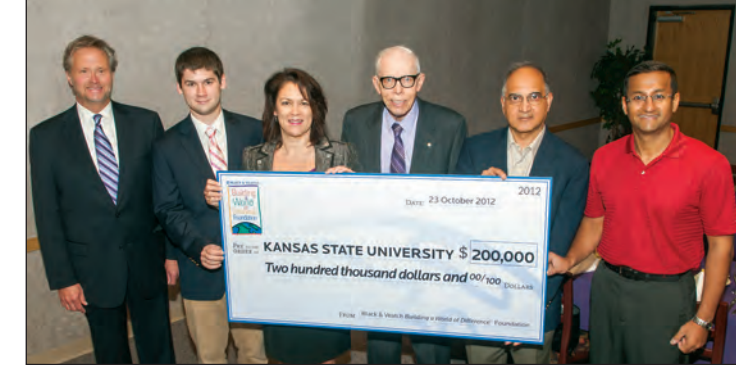


Shawn and Stacy Hutchinson

Satellite images, pictured below, are used to monitor and plan conservation methods for military training areas. The images show aboveground biomass and the effect of lower-than-average rainfall on terrain at Fort Riley, Kan.



- Sue P. Barsamian, EE '81
- Stan Clark, BAE '67, '71
- Randall R. Coonrod, CE '74
- Ray Dempsey, Jr., IE '90
- Casey S. Halsey, CNS '79
- Wayne A. Harms, CHE '76
- Mark Hutton, CNS '77
- James M. Johnson, CNS '84
- 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, ECE '85
- James L. Tadtman, CE '67
- Spencer Tholstrup, CHE '81
- Lewis Von Thaer, EE '83
- Keith Warta, CE '84
- Margaret A. Yaege, ME '79, '84



Left to right: John English, dean of engineering; Austin Lage, CE freshman; Cindy Wallis-Lage, CE '85, Black & Veatch; Larry Erickson, CHE professor; Anil Pahwa, ECE professor; and Bala Natarajan, ECE associate professor

Black & Veatch funds charging stations

The Black & Veatch engineering and construction firm, Overland Park, Kan., through its Building a World of Difference Foundation, has awarded Kansas State University a \$200,000 grant to help develop solar-powered charging stations for electric and hybrid vehicles.

"We are very grateful to Black & Veatch for sharing our vision, and we are extremely excited about this corporate partnership and the research opportunities it will bring," said project leader Larry Erickson, professor of chemical engineering.

The project will allow researchers to better understand technical, social, environmental and economic issues surrounding plug-in vehicles. Possible research topics include environmental impact, consumer attitudes and distribution of electricity.



Sesquicentennial Events

- **Kick-off event in Ahearn Fieldhouse** **Thurs., Feb. 14, 2013**
*Grand exhibition of college, unit and group exhibits
Birthday celebration for university and community*
- **Gala** **Fri., Feb. 15, 2013**
Celebrating 150th and 1863 Circle, Manhattan Convention Center
- **Celebration at athletics event, Founder's Day** **Sat., Feb. 16, 2013**
- **Special McCain event** **Sun., Feb. 17, 2013**
- **Closing Events** **Homecoming week, 2013**

www.k-state.edu/150/



Left to right: Sue Barsamian, Steve Kirchhoff and Ray Dempsey, Jr.

Forum promotes retention

Studying to become an engineer—is it all worth it?

This was the basic question tackled by members of the Dean's Advisory Council in a retention-based activity for freshman and sophomore students Oct. 26 in Fiedler Auditorium.

Mike Manley, Sue Barsamian, Steve Kirchhoff, Ray Dempsey, Jr. and Mark Hutton presented brief comments on their chosen career paths. Dean John English then moderated a question-and-answer period between the panel and students.

Comments from the panel—

"On the other side of the 'boot camp' of engineering school is a lifetime of opportunity to make a difference."
—Barsamian

"Your engineering degree is a gateway. Often in big businesses, engineers run the company. Most of the top 20 people at ExxonMobil are engineers."
—Kirchhoff

"Engineers get to help change the world."
—Manley

"Today's advancements in technology, so natural and normal to you, were all created by engineers—they create the future and then get to live in it."
—Dempsey

"Engineering is the DNA of good ideas. I challenge you to find something in life that isn't touched by an engineer."
—Hutton



Recognitions

'65 Don Sutaria (M.S. IE) is founder and president of CareerQuest, located in New Jersey and New York. Also known as Career Doctor Don, he is a consultant to individuals and corporations, offering executive coaching and career management services. He is the author of *Career and Life Counseling from the Heart (Your Career Is a Pathway to Your Soul!)* and has been quoted in numerous publications including the *Wall Street Journal*, *New York Times*, *Working Smart*, and *Fortune*. don@careerquestcentral.com

'71 David Karnowski (CE), was selected by the ASCE Region 7 Board of Governors to receive the 2012 Region 7 Practitioner Advisor Award for his dedication to the advancement of the civil engineering profession through involvement with the K-State ASCE student chapter.

'91 Simeon O. Terry (IE), Dallas, Texas, has been honored with America's Top Diversity Champions award for 2012 by Diversity Business.com. The Top Champions award recognizes successful leaders who have distinguished themselves in the markets and communities they serve with quantifiable results on important diversity initiatives. Terry was recently promoted to corporate director of diversity affairs for Austin Commercial, one of three construction/construction management companies under parent company Austin Industries headquartered in Dallas.

'06 April Eisenhauer (ARE, M.S. ARE), Dallas, Texas, has been named to the 2012 "40 under 40" list by *Consulting-Specifying Engineer* magazine. This award is given to 40 building industry professionals age 40 and younger who stand out in all aspects of their lives. She is a mechanical engineer with ccrd Partners Professional Consulting Engineers, Dallas.

Deaths

'50 Robert Eldon "Bob" Butler (IE) died Aug. 7, 2012, in Dallas, Texas. Before retirement he had spent 27 years with Texas Instruments in facilities management. He is survived by a son, Daniel.

'74 James Michael "Mike" Duncan (NE), died unexpectedly May 28, 2012. An M.D., Duncan served as Deputy Chief Medical Officer of the Space Life Sciences Directorate at the Johnson Space Center in Houston, Texas. He began his career with NASA in 1999, holding such positions as flight surgeon, deputy crew surgeon, lead crew surgeon, manager of medical operations, and chief of space medicine. Duncan led the NASA team that traveled to Chile in September 2010 in support of the rescue of 33 trapped miners. For their efforts, he and the team were awarded the NASA Exceptional Achievement Medal and the 2011 Samuel J. Heyman, Service to America, National Security and International Affairs Medal. Duncan presented an Eyestone Lecture for the College of Engineering on the miners' rescue effort in the fall of 2011, and was to have joined the Dean's Advisory Council this fall. He is survived by his wife of 35 years, Candace "Candy" Hart Duncan. The James Michael Duncan Engineering Scholarship Fund at Kansas State University has been established by the family, and contributions may be sent to the KSU Foundation, 2323 Anderson Ave., Suite 500, Manhattan, Kansas 66502.



'97 Stephanie Wesemann Thompson (ARE) passed away suddenly May 2, 2012, in Aurora, Colo. She is survived by her husband, Brian Thompson; and son, Scott Riley Thompson, age 6. After graduation, she had attained her professional engineer license in architectural engineering and was employed at Merrick & Company as an electrical engineer. She was certified as a LEED AP, building design and construction; and was a certified energy manager.

'09 Shwan Kassim Alkhatib (ECE) died unexpectedly in New York City, March 2, 2012, while attending to his brother Weesam (CHE '99), who was undergoing chemotherapy and passed away April 14, 2012 (see spring 2012 *Impact*). Shwan had been pursuing a master's degree in electrical engineering at K-State, but had put that on hold to care for his ill brother. He is survived by his parents, Kassim and Sorkel Alkhatib; and two sisters, Aveen (CHE '06) and Cheen.

Faculty

Doris Adriana Grosh died June 8, 2012, in Manhattan, Kan. She held degrees in both mathematics (M.S. '49), and statistics (Ph.D. '69), from Kansas State University. After completing her Ph.D., Grosh joined the department of industrial engineering at K-State, becoming the first woman faculty member in the College of Engineering, holding also a joint appointment in the department of statistics. A popular teacher, Grosh received the Hollis Award for Excellence in Undergraduate Teaching in 1975, and was voted by the students as best teacher in the IE department in 1981 and 1990. At her retirement in 1990, she became the first and only recipient of the Industrial Engineering Department Mother Hen Award. She was active in professional societies, and an accomplished researcher and published writer. She was preceded in death by her husband, Gene Grosh, also a longtime member of the faculty of the IE department at K-State. She is survived by three daughters, Kathy, Barbara and Margaret; five grandchildren and three great-grandchildren. Contributions for the Grosh Scholarship Fund in the K-State Industrial Engineering Department may be sent to the KSU Foundation, 2323 Anderson Ave., Suite 500, Manhattan, Kansas 66502.



Philip G. Kirmser died July 26, 2012, in Manhattan, Kan. He held three degrees, all from the University of Minnesota—B.S. in chemical engineering, and M.S. and Ph.D. in mathematics, 1939, 1944 and 1958, respectively. After U.S. Naval service in WWII, he joined the K-State faculty in 1948 as an associate professor of applied mechanics. In 1958 he became a full professor and served as head of the applied mechanics department from 1962–1975. He continued teaching in various departments in the College of Engineering up to, and after, his retirement in 1990. Kirmser was a registered professional engineer in Kansas; a visiting scientist at the Institute Battelle in Geneva, Switzerland in 1970; a visiting professor in the department of mathematics at the Ecole Polytechnique Federale in Lausanne, Switzerland in 1978; and a consultant to the Digital Equipment Company in Geneva in 1985. He was a prolific writer of scientific articles and was widely published. He held four patents, spoke four languages, and was a classical musician. He was preceded in death by his wife of 70 years, Jeune Kirmser; and is survived by a son, Larry; daughter, Sandy; and one grandson.



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—

Impact Editor
College of Engineering
133 Ward Hall
Manhattan, KS 66506
email: impact@engg.ksu.edu

Schulz named to administrative post in College of Engineering

Noel Schulz has been named associate dean for research and graduate programs, and director of the college's Engineering Experiment Station.

Schulz is the LeRoy C. and Aileen H. Paslay Professor of Electrical and Computer Engineering and director of the university's Electrical Power Affiliates Program. She assumed these duties Aug. 1, succeeding then Associate Dean and Director Byron Jones, now a professor in mechanical and nuclear engineering.

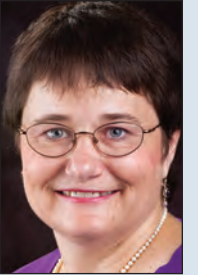
As head of the experiment station, Schulz will lead development of effective, major-funded research programs and promote their efficient conduct.

Schulz joined the college faculty in 2009. She is a nationally recognized expert in power systems engineering, and her research has been funded by the National Science Foundation, the U.S. Departments of Defense, Energy and

Homeland Security, and others. She works with electric utilities and power equipment manufacturers, and serves as president of the Institute of Electrical and Electronics Engineers Power and Energy Society.

As an administrator, Schulz has been actively involved in recruiting and retaining women in engineering, promoting faculty development and encouraging international experiences in education.

She is a member of the American Society for Engineering Education and the Institute of Electrical and Electronics Engineers. She holds B.S. and M.S. degrees from Virginia Tech, and a Ph.D. from the University of Minnesota, all in electrical engineering.



Two new development officers

Brett Larson and Madison Loeb have been named development officers for the College of Engineering at the KSU Foundation.

Larson graduated from K-State in 2010 with an M.S. in counseling and student development, and during that time was a graduate assistant in the Ahearn Fund office for K-State Athletics.



He was previously employed with the Emporia State University Foundation as a major gifts officer, and prior to that was a development coordinator for California State University, Bakersfield.

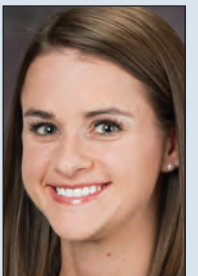
He earned a B.S. in sport management from Wichita State University in 2008. While there, he worked in his father's law office which specializes in estate and small business planning. Additionally, he is a graduate of the Professional Culinary School of the Rockies in Boulder, Colo.

Loeb graduated from K-State in 2009 with a B.S. in political science. She holds a national certification in nonprofit management and leadership.

She attended the summer Institute for Philanthropy and Voluntary Service at Georgetown University through The Fund for American Studies, and interned within the community development department of First Book, a nonprofit in Washington, D.C.

As an undergraduate, Loeb served on the executive committee of the KSU Student Foundation and was on the inaugural advisory board that founded and implemented the K-State Proud student-led philanthropic campaign.

Loeb previously served as admissions representative for K-State, where she successfully developed and coordinated a recruitment strategy for prospective students from Johnson County, Kan., and respective states.



Notice of nondiscrimination

Kansas State University is committed to nondiscrimination on the basis of race, sex, national origin, disability, religion, age, sexual orientation, or other nonmerit reasons, in admissions, educational programs or activities and employment (including employment of disabled veterans and veterans of the Vietnam Era), as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990, has been delegated to Roberta Maldonado-Franzen, Interim Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807. 64920-11/12-25,606

Faculty awards and honors

2012 recipients



Left to right: **David L. Soldan**, ECE professor, Bob and Lila Snell Distinguished Career Award for Excellence in Undergraduate Teaching; **J. Garth Thompson**, MNE professor, Clair A. Mauch Steel Ring Advisor of the Year; **Naiqian Zhang**, BAE professor, Myers-Alford Memorial Teaching Award; **Keith L. Hohn**, CHE professor, James L. Hollis Memorial Award for Excellence in Undergraduate Teaching; **Medhat M. Morcos**, ECE professor, Charles H. Scholer Faculty Award; **Anil Pahwa**, ECE professor, Frankenhoff Outstanding Research Award; and **Robert W. Stokes**, CE professor, Larry E. and Laurel Erickson Public Service Award