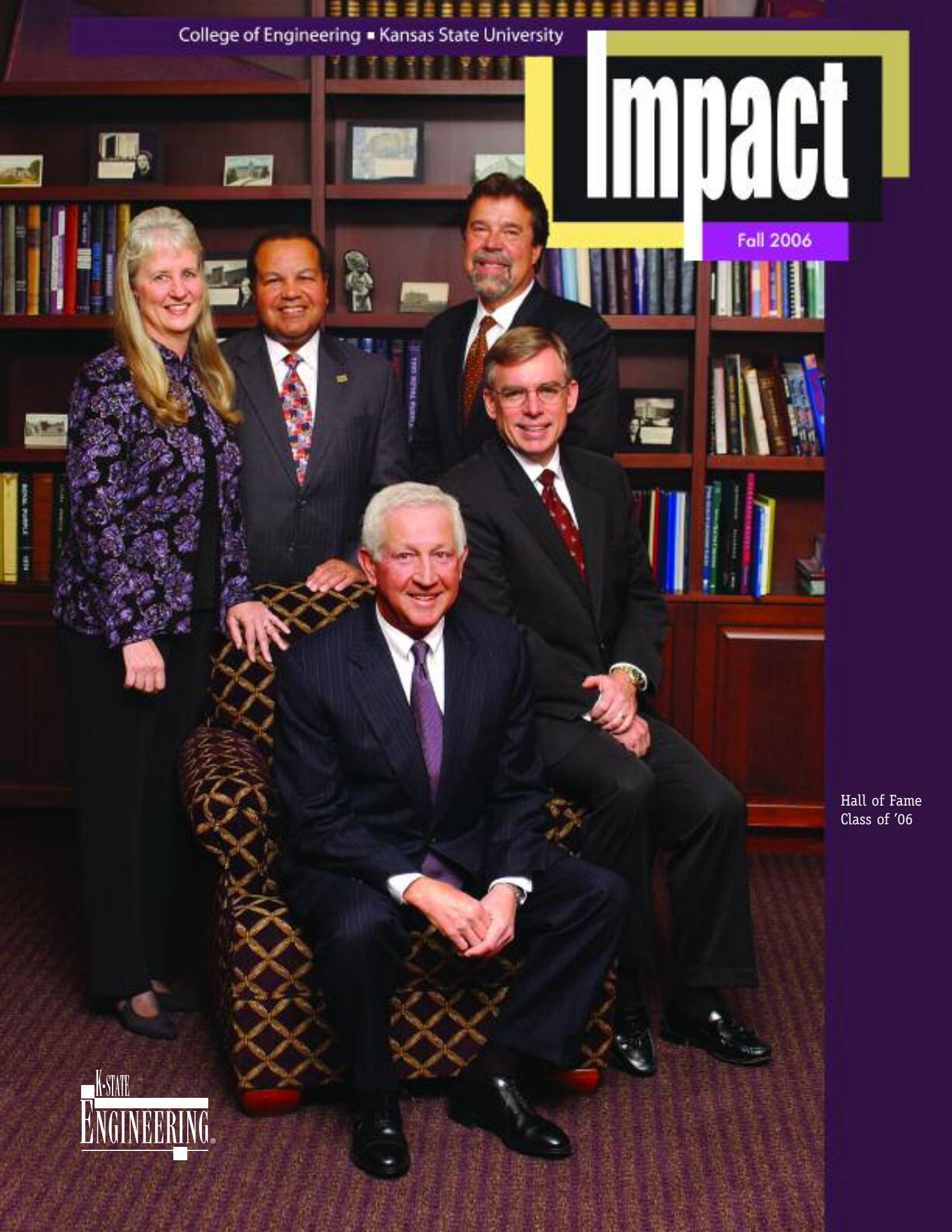


Impact

Fall 2006



Hall of Fame
Class of '06



MESSAGE FROM THE DEAN

Consider our innovative faculty-led study abroad groups, as well as faculty and students who are enhancing the overall educational environment of the college through participation in learning communities.

And our alumni are showing up—in career advancement and a willingness to give back to our college with their time, talent, and treasure. Our distinguished Eyestone Lecture Series was honored by presentations from two distinguished alumni—immediate past chairman of the Joint Chiefs of Staff, Richard Myers, ME '65; and project manager for NASA's New Horizon mission to Pluto, Glen Fountain, EE, B.S. '65, M.S. '66.

The resumé of our Hall of Fame inductees, as well as the Professional Progress Awardees, at the Seaton Society Awards Celebration, read like a blue-ribbon list of "Who's Who in Engineering"—business men and women, attorneys, entrepreneurs . . . and perhaps even more importantly, men and women who give generously of their resources outside of the workplace as well. The same can be said of our College of Engineering Advisory Council, whom I was privileged to meet with that weekend also.

And the generosity doesn't stop with only those who are publicly honored or who are serving in visible leadership roles.

Many more of our alumni and friends are showing up by contributing to the Kansas State University Changing Lives Campaign, where the college has already met more than 94% of its goal. The infusion of this type of support and financial commitment into our academic and research programs and our facilities will secure the continued successes of our faculty and students.

A perhaps more personal example of "showing up" has been my time as interim dean. As I reflect on the activities of the recent past, I realize that the college is highly respected by its many constituents. The search committee is hard at work, and my tenure at this task can likely be measured in months. But the experience of serving in this capacity with such an exceptional group of students, faculty, staff, and alumni has been an amazing opportunity. It will always be one of the highlights of my professional career. My thanks to all of you for making it so.

...it is more often than not the engineers who "show up."

Richard R. Gallagher

Richard R. Gallagher, Interim Dean

During our recent Hall of Fame induction ceremonies acceptance comments, a member of the 2006 class, Cathy Ritter, referenced the popular quote, "The world is run by those who show up." She went on to remind us that in today's world, from her experience, it is more often than not the engineers who "show up."

In looking at the recent activities and accomplishments of our own college in these pages of *Impact*, I believe you might well agree that K-State engineering is truly showing up!

We're showing up with academic accomplishments by our students and faculty. We've added a Fulbright Scholar to our extensive list of Goldwater, Udall, and numerous other national scholarship recipients. Our student tractor and robotics teams brought home first-place trophies in national competitions this summer.

Our recent faculty teaching and research awardees are an outstanding group of individuals. EECE associate professor Steve Warren's research efforts with sensors and sensor systems are affecting great promise in the area of human health monitoring.



A NEW LOOK!

As part of a marketing strategy and plan underway in the College of Engineering, *Impact* has been revamped. Starting with this issue, we have switched from the former folded, 11" x 17" tabloid-size page to a saddle-stitch, standard 8.5" x 11" magazine-size page. We're filling the same number of pages with news about the college that we hope you'll continue to enjoy reading in this fresh format.

—the *Impact* staff

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Steve Warren, EECE
associate professor

STAYING HEALTHY, STAYING HOME

Older adults with serious health problems often must contemplate leaving their homes to get the care they need or staying put at the risk of their health. But what if that choice were no longer necessary?

That's the pursuit of a Kansas State University program involving the research and development of wearable sensor systems to monitor health indicators like heart rate and blood pressure. These devices would electronically transmit physiological data to a physician, allowing patients to be monitored in their normal living or working environments rather than visiting the doctor's office every few days or staying in rehabilitation centers or assisted-living facilities.

Steve Warren, associate professor of electrical and computer engineering, leads the research. He said being able to monitor older patients on a continual basis while they are living in their own homes would not only improve their quality of life, but could also prevent severe and costly future medical problems.

"One of the issues faced by the elderly population is that they may experience a catastrophic health event like a stroke or heart attack and yet not notice any physiological precursors," he said. "Based on day-to-day trends in health parameters, a remote expert system could ideally predict, for example, the likelihood of a pending stroke, avoiding in some cases significant costs and extended rehabilitation."

Warren said the system initially would be intended for high-risk

patients like those with congestive heart failure who otherwise would be in a nursing home or assisted-living facility. The system includes an electrocardiograph as well as a reflectance-mode pulse oximeter that uses beams of light to acquire heart rate, blood oxygen saturation, and other health indicators. Wearable sensors elsewhere on the body can provide blood glucose levels, electrocardiographs, and body temperature. A special weight scale, which communicates with the wearable monitoring devices, also provides ambient temperature and humidity.

Using Bluetooth wireless technology, the wearable sensors communicate with a data logger: a recorder that the patient can wear as a "fanny pack." The data from the fanny pack can be transmitted to the physician over the Internet using the patient's home computer or even something like a Bluetooth-enabled kiosk at a shopping mall.

"Ideally, you could transmit data where you live and where you go," Warren said. "The problem with most of today's telemonitoring technology is that it tethers a patient to a hospital bed or to a desk at home. When a patient removes this monitoring equipment, he or she takes the risk that an event is going to go undetected."

Warren said the systems are special in that they transmit data to a remote database using the Health Level 7 messaging standard, which usually is used to transmit data from hospital to hospital rather than from patient to physician. The wearable devices are made simple to use with plug-and-play technology, which means they are easy to add to the existing "body area network." That is, they operate like a plug-and-play flash drive in a home computer, where the computer recognizes that a storage device has been added, yet it doesn't require the user to install drivers to use the device. Warren said the monitoring systems are the first wearable systems to comply with the plug-and-play standard Medical Information Bus, drafted in the 1980s to promote ease of use in hospital bedside devices.

"That standard makes some assumptions about the availability of resources, such as an operating system," Warren said. "We had to deviate slightly from the current standard to apply it in an ambulatory monitoring scenario."

Warren said the first two hurdles in the system's development were getting it to support a plug-and-play device and finding a way to transmit patient data from the system to the physician using available interoperability standards. One current challenge is finding a way to authenticate the user and his or her data.

"If you expect these devices to transmit their data over the Internet to an electronic patient record, you have to ensure that the link is secure and that the data are authentic," Warren said. But current authentication tools do not offer the user-friendliness researchers hope to achieve, Warren said, because they require actions on the part of a person who may not be technology-savvy.

*"Ideally, you could
transmit data where you
live and where you go."*

That's why K-State is working on ways for a sensor to identify its owner based on his or her physiological data. For instance, Warren said a patient's electrocardiogram, graphed over a certain amount of time, takes on a specific shape unique to him or her. By comparing the current electrocardiogram signal to known data stored for the patient, a computer could verify the identity of the patient based solely upon the data he or she transmits.

Another way K-State is working to make the wearable systems easier for users is by creating compatible monitoring devices that patients can mix and match to meet their healthcare needs. For instance, a diabetic may need devices to monitor his or her weight and blood glucose levels, whereas someone with heart problems may be more interested in the devices to measure his or her blood pressure and acquire electrocardiograms.

Moreover, Warren said the goal is for such systems to be assembled at an overall cost of a few hundred dollars using consumer devices readily available at discount merchants or the corner drugstore. Current home "telemedicine" technologies can run from \$2,000 to as much as \$50,000.

"Many patients are on a fixed income and have limited healthcare options," Warren said. "They are one of the reasons we started this work."

This mix-and-match approach to building home medical systems is vastly different from approaches used to design systems that are currently approved by the U.S. Food and Drug Administration (FDA).

"The products and ideas from this effort have impacted discussions at the FDA," Warren said, "in terms of the kinds of home monitoring systems they expect to be submitted for approval in the next 10 years. The idea of patients assembling their own systems is worrisome for the FDA—they're the medical device safety net, yet they will be unable to anticipate the systems that patients will configure for themselves.

"While our prototype systems have received the attention of medical-device manufacturers, the longer lasting impact of this work is on the global discussion of home care device development and on the ability of these devices to assist a growing international population of elderly individuals," he said.

Warren's research program was primarily funded by a National Science Foundation (NSF) CAREER Award. Based on this work and that of similar programs, the NSF has decided to incorporate home healthcare applications in their recent requests for proposals, affirming the huge impact that such technology can have on quality of life both here and abroad.

Ideas from Warren's initial CAREER grant have helped lead to funding for two additional, related projects at K-State. One is a multi-year award from the NSF Information Technology Research program, with Daniel Andresen, computing and information sciences, and Howard Erickson, anatomy and physiology, to develop wearable systems that continuously monitor cattle state of health. A second result is a K-State Targeted Excellence award that has funded the departments of computing and information sciences, and electrical and computer, mechanical and nuclear, and chemical engineering to establish a Center for Sensors and Sensor Systems.

—by Erinn Barcomb Peterson,
K-State Media Relations and
Marketing, with Mary Rankin

Faculty-Led Study Abroad



photos by Sutton Stephens

Clockwise from top: woodframe office building on campus of Växjö University; international mile marker in outdoor area of Växjö, Sweden; log deck ready for the mill; students observe timber operations; and ARE 720 class poses by the lakeshore in Växjö, Sweden.

Study abroad no longer has to mean a year, a semester, or even a summer out of the country. A new program, Faculty-Led Study Abroad, sponsored by the K-State Office of International Programs, offers students and faculty an overseas experience with a time investment of only two weeks.



The endeavor is designed to allow students and faculty to travel in an educational setting at the lowest possible cost by traveling during times when classes are not in session, by securing group rates, and by arranging student accommodations. Two groups from the College of Engineering

participated in the new venture last spring during intersession.

One group was led by Sutton Stephens, associate professor of architectural engineering and construction science, who traveled with 11 students to Växjö, Sweden, mostly on the campus of Växjö University, May 22–June 2.

A second group was led by Naiqian Zhang, professor of biological and agricultural engineering, who took eight students to Changchun, Beijing, Xi'an, and Shanghai, China, from May 15 to May 29. Donghai Wang, assistant professor of biological and agricultural engineering, also accompanied this group.

Enrolled in the three-credit-hour course, ARE 720 Problems in Architectural Engineering: Timber Structures in Sweden, Stephens' group, five of whom were graduate students, covered timber harvesting practices, forest management, and economics of the lumber industry in Sweden; wood product manufacturing of structural members and architectural materials (flooring); structural engineering design of wood members and connections; and construction practices in Sweden, including panelized assemblies.

During the two-week course, the class witnessed timber harvesting, sawmill operations, a wood flooring manufacturing plant, and a house manufacturing facility. The exchange element with Växjö University was that graduate students and faculty provided some lectures and acted as tour guides to the various sites that were visited.

"I believe there were two main benefits to this course of study," Stephens said. "First, the students experienced another culture and were able to get an idea of the university educational system in Sweden. Second, they were able to see timber operations and processing of structural and architectural wood products that are not available to them here in Kansas."

Stephens said he is already planning a trip for summer 2007, as he is anxious to take another group and make it an even better experience.

Agricultural Modernization in China was the title of Zhang's three-credit-hour course, and the first requirement before leaving the mainland was for the students to participate in four one-hour seminars involving the history, geography, economics, politics, culture, and language of China. These were led by K-State faculty in history, geography, international programs, and modern languages.

During the trip, students participated in academic programs at Jilin University covering an overview of agricultural mechanization in China, bio-materials, bionic machines, and ginseng production technology. Tours included a provincial agricultural research academy, a small farm machinery company, a town government office, a farm machinery custom-service firm, a village, a farmer's house, a private beef-producing company, and a farm-machinery market.

K-State students took part in exchange activities with students of Jilin University, including visiting student dormitories, ping-pong games, a basketball game with the College of Engineering team, and attending a party.

"The academic program at Jilin University gave the students first-hand knowledge of the Chinese educational system," Zhang said. "Close contact with Chinese students gave them more opportunities of learning about China through 'unofficial' channels."

"Visiting the capital city of Beijing, the historic city of Xi'an, and the modern city of Shanghai gave them exposure to Chinese history and tradition, as well as its fast development toward modernization," he said.

Zhang said he took "maximum efforts" to allow the students to break constraints set by the preplanned "official" program, giving them opportunities to observe some of the real aspects of China, such as an undeveloped region and farmer's family, which are usually not open to "foreigners."

—by Mary Rankin



photos by Naiqian Zhang

Clockwise from top: students climb the Great Wall of China; Agricultural Modernization class poses in front of bell tower in ancient city of Xi'an; Temple of Heaven in Beijing; planters on display at small agricultural manufacturing facility; and students tour Jilin Provincial Academy of Agricultural Sciences.

SEATON SOCIETY

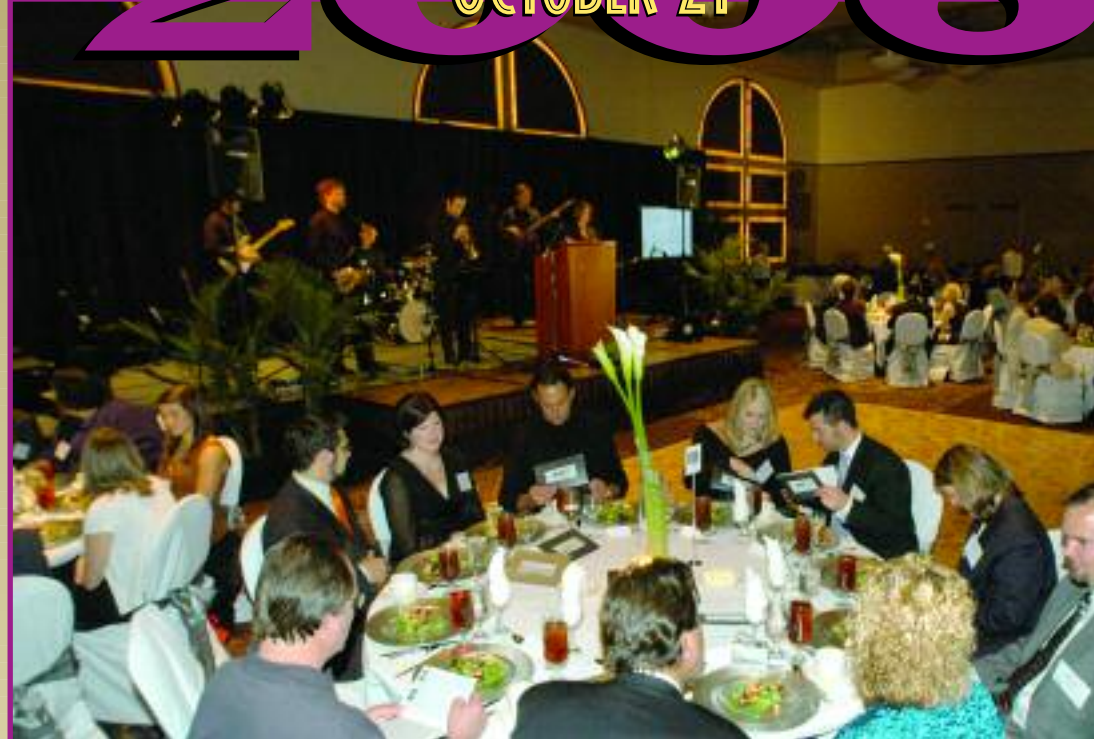
2006

OCTOBER 21



HALL OF FAME

College of Engineering Class of 2006 Hall of Fame, distinguished inductees honored for their professional success and accomplishment, active involvement with and support of the College of Engineering, dedication to Kansas State University, and professional and public service, left to right, back row: Walter Robinson, CompSci '72, principal with FuquaRobinson, Inc.; Cathy Ritter, CE '75, president of the Constellation Design Group; and David Everitt, IE '75, president, Agricultural Division - North America, Australia, Asia, and Global Tractor and Implement Sourcing of Deere & Company; left to right, front row: James Tadtman, CE '67, president of Wildcat Construction Co.; and Larry Engelken, EE '72, self-employed entrepreneur and developer.



Guests begin the salad course, above, as Kansas City-based band, Multiphonic, provides background music in the main ballroom of the K-State Alumni Center.

Greg Tucker and Nadalie Bosse, far left, chair-elect and chair, respectively, of the College of Engineering Advisory Council, honor Shannon Timmons, left, CompEng; and Lisa Kitten, right, ME, as the first two recipients of the Terry S. King Engineering Leadership Scholar award. Left, Alison Peters, ChE, visits with her great uncle and Seaton Society member, Cleve Humbert, ARE '51.

Below far left, Hall of Fame inductee Walter Robinson visits with his host and former CompSci professor, Elizabeth Unger, Vice Provost of Academic Services and Technology, and Dean of Continuing Education; below, dancers enjoy the music.



PROFESSIONAL PROGRESS AWARD

Professional Progress Awardees, recognized for success in the middle years of their professional careers and accomplishments, left to right, standing: Kevin McLain, CE '88, geotechnical engineer for the Missouri Department of Transportation; Robert Wald, EE '86, technology strategist and implementation advisor for his company In-Knowvation; Philip Bullinger, EE '87, senior vice president and general manager for Engenio Storage Group; and Ray Dempsey Jr., IE '90, vice president and commercial director for the Western Hemisphere Region of BP; left to right,

seated: Craig Cowley, BAE '93, process engineer at Hill's Pet Nutrition, Inc.; Jeff Streets, ChE '86, attorney and partner in Streets & Steele law firm; Christian Velasquez, ME '91, business development manager and performance chemicals market manager for Dow Corning Corp.; Greg Korte, CNS '87, president of the Las Vegas Division of The Korte Company; and Bryan Long, ME '98, mergers and acquisitions analyst for Koch Corporate Business Development Group. Not in attendance: Shane Runquist, CompSci '97, software engineering team lead, Garmin International.



Interim dean Richard Gallagher, podium at right, addresses the audience prior to introducing the 2006 Professional Progress Award winners.

FACULTY AWARDS

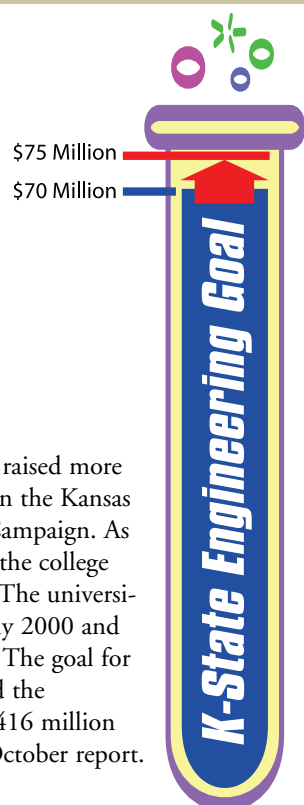


The College of Engineering recognized the following faculty members for their contributions to the college and its students at the annual Fall Convocation in September, back row, left to right: Garth Thompson, MNE professor, Robert R. and Lila L. Snell Distinguished Career Award for Excellence in Undergraduate Teaching; Richard Gallagher, interim dean, Blue Key National Honorary Adviser of the Year Award; James DeVault, EECE professor, James L. Hollis Memorial Award for Excellence in Undergraduate Teaching; Morgan Powell, BAE

professor, Larry E. and Laurel Erickson Public Service Award; and Sutton Stephens, ARE/CNS assoc. professor, Clair A. Mauch Steel Ring Adviser of the Year; front row, left to right: Douglas McGregor, MNE assoc. professor, Frankenhoff Outstanding Research Award; Keith Hohn, ChE assoc. professor, Myers-Alford Memorial Teaching Award; Medhat Morcos, EECE professor, Presidential Award for Undergraduate Teaching; and David Pacey, MNE professor, Commerce Bank Outstanding Undergraduate Teaching Award.

College nears goal in Changing Lives Campaign

The College of Engineering has raised more than 94% of its \$75 million goal in the Kansas State University Changing Lives Campaign. As of late October, total revenues for the college had exceeded \$70 million dollars. The university-wide campaign kicked off in July 2000 and will run through December 2007. The goal for all of K-State is \$500 million, and the Foundation reported more than \$416 million amassed toward that mark in an October report.



K-State alum Jennifer Wright presents interim dean Richard Gallagher with a check for \$18,400 as part of ExxonMobil's Departmental Grants Program. The grant allows academic departments to allocate money for educational purposes including scholarships, field trips, visiting speakers, equipment purchases, and student and faculty travel to academic-related activities. The money at K-State will go to the departments of chemical, mechanical, electrical and computer, and civil engineering. Wright, BAE '00, is an engineer with ExxonMobil.



Year two of learning communities initiative underway

- Learn about learning.
- Learn about self.
- Deliberately develop community and worthy team membership.
- Practice intentional mental processing as a habit of mind.

These are the objectives of the K-State College of Engineering Learning Community Initiative as it entered its second year of operation this fall.

Designed to impact both faculty and student experiences, the foundation of the learning community model is the K-State LEA/RN™ program, where for the past eight years faculty have developed knowledge of learning and effective classroom strategies.

"The second stage extends this philosophy to group situations where both students and faculty are involved in learning about learning," said LaVerne Bitsie-Baldwin, Multicultural Engineering Program director and co-coordinator of the program for the college.

"Today's graduates must take with them the ability to learn and grow in their profession. This program empowers that learning."

A learning community can take various forms, whether it involves a faculty member and his or her advisees, a department-based group of faculty members and students, a multi-disciplinary group that crosses departmental or college boundaries, or graduate or

undergraduate students collaborating on a research or extracurricular activity.

The 2006–2007 College of Engineering Learning Community groups reflect this diversity:

- Keith Hohn, ChE assoc. professor: ChE freshmen (16 members)
- LaVerne Bitsie-Baldwin: NACME Scholars (30)
- Malgorzata Rys, IMSE assoc. professor: Institute of Industrial Engineers Leadership (6)
- Julia Keen, ARE/CNS asst. professor: Engineering Student Council (6)
- Shannon Timmons, CompEngg senior; Lisa Kitten, ME senior: Freshman Leadership Council (16)
- Anil Pahwa, EECE professor: EECE Freshman Orientation Mentors (4)



Students learn about each other in "ice-breaker" exercise.

All groups meet together and individually monthly, with faculty advisors meeting separately as well to coordinate and plan activities.

"I became involved in the Learning Community Initiative because I was interested in helping students improve their teamwork and leadership skills," said Keith Hohn, ChE

assoc. professor and co-coordinator of the program. "These 'soft' skills will be vital to students in their professional lives, yet we don't often formally teach them in engineering courses. I

thought the learning community could provide students with the chance to practice intrapersonal skills in a safe, supportive environment."

Examples of learning outcomes for students participating include learning and practicing skills for making group and team projects more rewarding and productive; developing skills to be more efficient learners without relying on cramming or memorization; and practicing skills desired by those hiring college graduates—listening, communicating clearly, cooperating with others, thinking critically, and taking responsibility.

"Initially what attracted me to the program was acquiring a technical elective credit hour," said William Service, junior in chemical engineering. "However, once I was in it, I got more than I bargained for. It really taught me how much I am responsible for my own learning and that it is absolutely essential to know yourself and how you react to different situations in order to optimize your performance and use your time as wisely as possible."



Jan Wiersema, Iowa State, leads the group.

–by Mary Rankin

Capstone class aids Fort Scott water project

Alok Bhandari, associate professor in civil engineering, and students from his natural resources and environmental sciences capstone class conducted a bathymetric survey of the bottom surface of Fort Scott Lake in Fort Scott, Kan., this summer.



Alok Bhandari

City officials there had asked the class to survey the lake bottom and produce a topographic map that would assist with water volume estimates and assessments of sediment accumulation. By having the class do the work rather than a consulting firm, Bhandari said the city saved at least \$30,000.

Students involved were from the colleges of engineering, architecture, and agriculture. The project was funded by WaterLINK, a Kansas Campus Compact that works with colleges to support service-learning projects that improve or protect water resources. It was co-funded by the Kansas Department of Health and Environment.



Students on Fort Scott Lake prepare to survey lake bottom.

First place for Powercat team



Displaying the multi-engine design of their award-winning quarter-scale tractor are team members Jesse Koch, left, and Brandon Winter, right.

The Kansas State University Powercat Tractors Design Team finished first in the ninth annual American Society of Agricultural and Biological Engineers International Quarter-Scale Tractor Student Design Competition in June in Peoria, Ill.

K-State is the only school that has placed in the competition's top three, including five firsts, continuously since 1999. The competition began in 1998.

This year, competing against 28 teams from the U.S. and Canada, the K-State team scored first in performance—the pulling competition—and first in both the written design report and oral presentation, the two other main categories of the competition.

The team is made up of undergraduates in biological and agricultural engineering (BAE), agricultural technology management (ATM), and mechanical and nuclear engineering (MNE).

“Our track record in this event is truly remarkable,” said Gary Clark, head of the department of biological and agricultural engineering at K-State. “I could not be more proud of our talented students and dedicated advisers who worked so hard to win the first-place trophy once again.”

All teams were required to use unmodified, 16-horsepower Briggs and

Stratton engines and Bridgestone/Firestone tires. The rest of the design was up to each individual team.

The remainder of the top-ten teams behind Kansas State finished in the following order: Laval Université, University of Wisconsin-Madison, University of Nebraska, University of Kentucky, Iowa State University, Purdue University, Modesto Junior College, University of Wisconsin-River Falls, and Cal Poly San Luis Obispo.

Team advisers are Mark Schrock and Pat Murphy, BAE professors; and Darrell Oard and Lou Ann Claassen, BAE engineering staff assistants.

Team members included Jesse Koch, senior, ATM; Matthew Grollmes, freshman, BAE; Kevin Swenson, senior, ATM; Phillip Lange, senior, ATM; Jeff Wessel, senior, ATM; Jared Selland, sophomore, MNE; Jace Chipperfield, May 2006 BAE graduate and team captain; Cory Friedli, sophomore, BAE; Bradley Stewart, senior, BAE; Kyle Riebel, May 2006 BAE graduate; Zane Unrau, senior, ATM; Brandon Winter, senior, ATM; Kyle McKinzie, junior, BAE; Brent Wehmeier, senior, ATM; Dan Kraus, freshman, MNE; Breanna Kuhlman, sophomore, ATM; Cole Tepe, senior, BAE; Benjamin Ross, freshman, BAE; Eric Bussen, senior, BAE; and Justin Weseloh, senior, ATM.

Mobile robotics team wins scavenger event

The College of Engineering department of computing and information sciences' student mobile robotics team captured first place in the scavenger hunt at the 15th annual Mobile Robot Competition at the American Association for Artificial Intelligence annual conference in Boston this past July.

The K-State team of four members directed the “KSU Willie” robot as it searched the conference hotel area for objects on a checklist, such as orange cones or stuffed toys, located at specific locations. The task required the competing robots to navigate and map among moving people and objects to acquire the specified objects to satisfy the checklist.

The scavenger hunt was broken down into two phases: the demonstration phase, which allowed participants to show off their system's abilities within the conference environment; and the challenge phase, which consisted of the actual hunt.

Contest judges graded each entry on six categories—autonomy and shared autonomy; environmental modification; unexpected, dynamic, and/or human interactions; accuracy; range and completeness; and speed—with a score between one and 10.



Left to right: Andrew King, Joseph Lutz, David Gustafson, Arron Chavez, and Michael Marlen.

Team members included Andrew King, research assistant in computing and information sciences and a December 2005 graduate in computer science; Joseph Lutz, senior in computer science; and Aaron Chavez and Michael Marlen, both graduate students in computer science.

The team was advised by David Gustafson, professor of computing and information sciences.

FULBRIGHT SCHOLARSHIP TO EE SENIOR

Japan is the destination of choice for the College of Engineering's newly named Fulbright Scholar, David Thompson, May 2006 graduate in electrical engineering with an emphasis in biomedical engineering and minors in physics and Japanese.

Thompson will be a Fulbright Fellow in Japan at Tohoku University in Sendai, where he will be using the opportunity provided by the Fulbright to improve his Japanese language proficiency, focusing on business and technical settings. Later in his career, he hopes to use these skills to facilitate increased academic and commercial cooperation between American and Japanese universities and companies. After the year in Japan, he plans to attend the University of Michigan to earn a master's and Ph.D. in biomedical engineering, focusing on the area of neural prosthetics. Career plans are to conduct research and teach in a university setting.

A K-State honors list student, he is a 2005 Goldwater Scholar, and received an honorable mention in the National Science Foundation Graduate Research Fellowship Program. A member of the College of

Engineering Honors Program, he also has received the James A. Branson Memorial Scholarship. He came to K-State as a Presidential Scholar. He has been active with Powercat Masters Toastmasters, which he served as secretary. He conducted undergraduate research under the supervision of Tim Bolton, professor of physics. His project was a simulation program to help measure neutrino oscillation. His last semester he worked with Steve Warren in the electrical engineering department improving the performance of a pulse oximeter unit, and later will be investigating its possible use as a biometric.

The Fulbright fully funds an academic year abroad to any of more than 150 countries, offering qualified students an opportunity for international experience and study. Selection is based on academic or professional record, language preparation, feasibility of the proposed study/research/teaching assistantship project, personal qualifications, and some preference factors established by the J. William Fulbright Foreign Scholarship Board and the Fulbright Commissions/Foundation.



David Thompson

Two Eyestone Lectures highlight fall agenda

The Eyestone Lecture Series featured two speakers in September and October, offering attendees an inside look at leadership and space travel, respectively.

Richard B. Myers, retired U.S. Air Force General and immediate past chairman of the Joint Chiefs of Staff, spoke on "Leadership: A Culture of Trust and Integrity," Sept. 26, in Fiedler Hall Auditorium.

Myers served as the nation's highest ranking military official, 2001–2005 and was principal military adviser to the President, Secretary of Defense, and National Security Council.

He entered the Air Force in 1965 through the K-State ROTC program and was a command pilot with more than 4,100 hours flying, including 600 combat hours during the war in Vietnam. Among his career highlights, he served as vice chairman of the Joint Chiefs of Staff; commander in chief, North American Aerospace Defense Command and U.S. Space Command; commander, Pacific Air Forces; and commander of U.S. Forces, Japan.

A 1965 K-State graduate with a B.S. in mechanical engineering, Myers later completed an MBA from Auburn University. He is a member of the K-State College of Engineering Hall of Fame and is a K-State Foundation Professor of Military History and Leadership.

On Oct. 26, Glen H. Fountain, project manager of NASA's New Horizons mission to Pluto, presented "New Horizons: A



Richard Myers

Journey to the Third Region of the Solar System."

New Horizons is the first spacecraft to travel to Pluto and the distant Kuiper Belt region. It was launched in January 2006 and will reach the frozen, distant world in summer 2015.

Fountain received his B.S. and M.S. degrees in electrical engineering from Kansas State University in 1965 and 1966, respectively, and joined the Johns Hopkins University Applied Physics Laboratory (APL) in 1966.

During his early career at APL, he held a number of appointments and supported a range of programs including the small astronomy satellite program, the transit improvement program, and the magnetic field satellite program. As supervisor of APL's space science instrument group, he led the ultraviolet and visible instrument developments for the Delta series of missions.

Fountain served as program manager for the Hopkins Ultraviolet Telescope in the 1980s and the Special Sensor Ultraviolet Spectrographic Imager in the early 1990s. From the early 1990s until 2003, he was supervisor of the APL Space Department Engineering and Technology Branch.

The Eyestone Lecture Series, established in 2000, is funded by an endowment of the late Fred and Mona Eyestone. Fred Eyestone, a 1941 K-State graduate in electrical engineering, was a member of the College of Engineering Advisory Council and a Distinguished Service Award recipient.



Glen Fountain

ALUMNI NEWS

1967

Warren Kent Wray (CE) has been appointed provost and executive vice chancellor for academic affairs at the University of Missouri-Rolla, effective Aug. 1, 2006.
wkray@umr.edu

1970

Dennis Kuhlman (AgE, M.S. '75) has been named engineer of the year by the Kansas Society of Professional Engineers. He has been dean of K-State at Salina since 1997. He and his wife, Carol, live in Salina and have three grown children.

1975

G. P. Bud Peterson (ME, B.S. math '77, M.S. ME '80) was named chancellor of the University of Colorado at Boulder in July 2006. The Colorado appointment follows his appointment as provost at Rensselaer Polytechnic Institute, Troy, N.Y.

1977

Ted Wiesner (ChE) has received the 2006 President's Award for Excellence in Undergraduate Teaching at Texas Tech University. An associate professor of chemical engineering, he was recognized for computer-based instruction of engineers and for his outstanding work in the classroom. Ted attributes his teaching success to the "excellent models" he had in the chemical engineering department at K-State. He and his wife, Colleen, live in Lubbock, Texas.

1985

Kerry W. Habiger (EE) has been promoted to program manager at Los Alamos National Laboratory, Los Alamos, N.M., where he provides oversight of multi-million dollar projects in the International Technology—Threat Reduction Directorate.

Galen J. Suppes (ChE) has been appointed to professor in the College of

Engineering at the University of Missouri-Columbia. This fall, he received the 2006 Presidential Green Chemistry Challenge Award from EPA in ceremonies at the National Academy of Sciences in Washington, D.C. He presented a lecture on the topic of his award at Oxford University in August. He is co-author of a new book, *Sustainable Nuclear Power*, available on line at Barnes and Noble.

1989

Todd A. Bednar (CNS) has accepted a chief estimator position with Helm Builders, LLC, Apex, N.C. The firm focuses on hospitality, medical, industrial, and retail markets.
toddb@helmbuilders.com

1998

Rick Haigh (EE) has accepted a new position at Garmin as team leader for core personal navigation devices. He has been with Garmin in Olathe, Kan., as a design engineer since graduating from K-State. Rick and his wife, Christie, live in Baldwin City, Kan., with their daughters Aliah and Annabelle.

DEATHS

1942

Phillip Samuel Myers (ME) died Oct. 18, 2006, at his home in Middleton, Wisc. After completing M.S. and Ph.D. degrees from the University of Wisconsin, he joined the faculty of the department of mechanical engineering at UW-Madison, where he spent his entire career, retiring to emeritus status in 1986. He was the first president of the Society of Automotive Engineers to come from academia rather than industry, and became a member of the National Academy of Engineering in 1973. He was inducted into the K-State Engineering Hall of Fame in 1989 and was instrumental in establishing the college's Myers-Alford Memorial Teaching Award. He is survived by his wife, Jean, three daughters, two sons, eight grandchildren, and one great-grandchild. Memorial contributions to the Phillip S. Myers

Memorial Fund may be made in c/o the Kansas State University Foundation, 2323 Anderson Ave., Suite 500, Manhattan, KS 66502.

1948

Joseph Howard Hodgson (AgE), Little River, Kan., died April 12, 2006.

1949

Luther F. Faulkner (ME) died Jan. 6, 2006, and was buried in Arlington National Cemetery. He was a registered engineer in Kansas and worked for the state highway department until 1952 when he was called to active duty in the USAF. He retired from the military in 1970 and worked for the GSA in Washington, D.C., until his retirement in 1982. He lived in Alexandria, Va., for 40 years and is survived by his wife, Ruthe, three children, six grandchildren, and two great-grandchildren.

1971

Charles A. Stryker (CE) died June 13, 2006, at his home in Topeka, Kan. He established CAS Construction, Inc. in 1985 and was serving as president at the time of his death. He was a licensed contractor in 19 states and a licensed professional engineer in six states. Stryker served on the K-State College of Engineering Advisory Council, was the 2002 College of Engineering Alumni Fellow, and was inducted into the K-State Engineering Hall of Fame in 2004. He is survived by his wife, Karen, and their children Amy, Travis, Elizabeth, and Justin, and one granddaughter. Memorial contributions to the Charles A. Stryker Memorial Scholarship Fund may be made in c/o the Kansas State University Foundation, 2323 Anderson Ave., Suite 500, Manhattan, KS 66502.

IMPACT is published twice a year by the Kansas State University College of Engineering, Manhattan, KS 66506. It is available on the Web at www.engg.ksu.edu.

Issue No. 17 Fall 2006

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