

IMPACT



Gib and Brenda Compton—
their story on page 6

Message from the DEAN

“The time is always right to do what is right.” —Martin Luther King, Jr.

It was such a privilege to join with students, faculty and alumni in celebrating the life of the late Rev. Martin Luther King, Jr. this past January. We gathered at the King campus memorial next to Ahearn Field House, which commemorates the site of the slain civil rights leader’s last speech on a university campus in 1968, where I was honored to participate in a multiple-wreath-laying ceremony.

Dr. King’s legacy lives on today through the continued efforts of our academic programs, two of which we will be hosting again this summer, aimed at increasing retention of multicultural students in higher education endeavors. The Multicultural Academic Program Success (MAPS), a part of K-State’s Project Impact and sponsored by \$1 million gifts from the Cargill Corporation and ConocoPhillips, will this summer bring 50 under-represented minorities to campus for six weeks. Last summer, 26 incoming freshmen, majoring in engineering, agriculture or business, completed six hours of coursework while here and then presented results of their multidisciplinary projects to campus administrators, Cargill executives and policy makers from across Kansas.

Because MAPS did not have space to handle the large number of qualified applicants last summer, faculty and departments across our college banded together to contribute time and money, with additional funding from the National Science Foundation, to establish a new program, Summer Campus Internships (CSI), with nine engineering and one chemistry student participating. Once again this summer, CSI students will engage in research projects alongside faculty in the colleges of engineering and arts and sciences, and will present their research at the end of the program. This academic endeavor will then integrate with our new Engineering Scholars Program, which focuses on providing opportunities for first-generation-to-college students with financial need.

Our Multicultural Engineering Program director LaVerne Bitsie-Baldwin and Women in Engineering and Science



Left to right with wreaths: Amy Button Renz, president and CEO, K-State Alumni Assoc.; John Currie, K-State athletics director; and Dean John English.

Program director Kimberly Douglas-Mankin are to be congratulated for their efforts in building and coordinating these outstanding bridge programs.

John R. English
Dean of the College of Engineering



Open House Proclamation

On Jan. 25, Kansas Governor Mark Parkinson signed a proclamation designating April 23–24, 2010, as the “88th Annual Engineering Open House at Kansas State University.” On hand for the occasion were, **left to right**, College of Engineering Assistant Dean Tom Roberts; Steel Ring vice president Neil Ostermann, CE senior; Governor Parkinson; Steel Ring president Anna Sommer, CHE senior; and Steel Ring treasurer Sarah Beier, IE senior.

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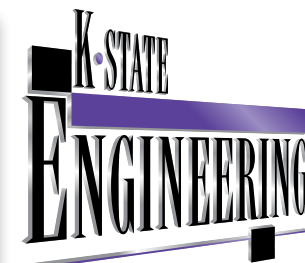
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Tummons wins Goldwater



Photo by David Mayes ■ Photo adaptation by Bob Davis

“I attribute my success in being named a Goldwater Scholar to my parents and my professors at Kansas State University.”

These are the words of Emily Tummons, K-State junior in biological systems engineering, who is among 278 students to receive 2010 Barry M. Goldwater Scholarships, worth as much as \$7,500 annually for recipients’ final one or two years of undergraduate study. Scholars were selected on the basis of academic merit from a pool of 1,111 applicants, according to the Goldwater scholarship program.

“My parents provided me with the opportunities to succeed in school, internships and research opportunities, by finding every way possible for me to travel and study at some of the best places in the country,” she said. “My professors provided me with the problem-solving skills and scientific knowledge to take on research experiences and excel at them.”

Nominees are required to complete four mini-essays and one longer essay about a significant area of research in their field of study.

“I expected the application process to be long and a lot of work,” said Tummons, a first-time applicant, “but I had no idea that I would spend the better part of two months writing essays, editing essays and rewriting essays for the campus application and then for the national application.

“My engineering physics professor, Tim Bolton, told me I had the grades and ambition to succeed at some of the national scholarships, including the Goldwater. He prompted me to talk to Assistant Dean Jim Hohenbary about the scholarship application process.

“Dean Hohenbary also told me about the Research Experience for Undergraduates Program (REU), which I participated in during summer 2009,” she said. “The REU made me realize I wanted to do research

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Open House 2010



Above, top to bottom: St. Pat, Chad Banka, ME, and St. Patricia, Betsy Dunlap, CHE; parade and skit judges Gary Clark, senior assoc. dean, and Dean John English approve a departmental performance; and students from IMSE display their Yellow Brick award.



Above and right: Skits, displays and competitions abound at Engineering Open House, April 23–24, touting the theme “Question the Past, Power the Future.”

2010 Open House Awards

Outstanding department	IMSE
Yellow Brick	IMSE
Freshman/Sophomore display.....	ARE
Curriculum display.....	CHE
Limited class display	ARE
Open class display.....	IMSE
St. Patricia— Betsy Dunlap	CHE
St. Pat— Chad Banka	ME

Engineering Banquet Awards

Leo Hernandez, CNS, winner of the W. Leroy Culbertson/Steel Ring Leadership Scholarship

Julie Thornton, CIS instructor, Clair A. Mauch/Steel Ring Adviser of the Year



K-State team examines effects

of water policies

When water use policies and practices change, they produce a ripple effect in communities, impacting everything from what types of crops a farmer will grow to how many people will move in or out of a town.

That's why Kansas State

University is pooling experts from multiple disciplines to understand how these changes affect people in communities that depend on the Ogallala Aquifer in western Kansas.

David Steward, associate professor of civil engineering, leads a team of K-State experts, using a \$1.5 million grant from the National Science Foundation, that is developing a scientific understanding of how changes in policy and water use practices could sustain the aquifer without jeopardizing the viability of the Kansas towns and people depending on it as an abundant source of water.

The interdisciplinary team is creating tools that can predict the consequences that water policy decisions would have on all aspects of a community, from the viability of the local economy to land use practices. These tools will help policymakers understand how their decisions about the Ogallala Aquifer could play out for people living in communities that depend on the water source.

The team is also employing two cutting-edge programs in their research—the open modeling interface (OpenMI) and the hydrologic information system (HIS). OpenMI was launched in 2005 and K-State, the first research team in an academic field to employ it, uses it to allow the different models in the project to “talk” to one another.

“We are right at the cusp of bringing together data storage capability and modeling through use of OpenMI,” Steward said, “and are being recognized internationally in scholarly journals for doing so.”

Steward said it used to be a struggle to combine water models with all the different data sources and databases, but use of the HIS program has standardized access to these sources. He organized the first-ever HIS workshop last spring at K-State, hosting researchers and state agency personnel from across Kansas interested to learn how to implement the system.

“Another thing that we’re trying to do is develop information that can be used in risk assessment,” Steward said. “Some of the policies we will be looking at are rules the state already has in place that could be enforced now. We’re trying to understand what the impacts of those are, not just on the water supply, crops and cattle production, but also on people.”

The Ogallala Aquifer, which lies underneath southwest Kansas, is one of the world’s largest underground sources of fresh water. The water source offsets the region’s dry climate and supports irrigated crops, the meat packing industry and the Kansans for whom such agricultural practices are their livelihood and the backbone of their towns’ economies.

There are places where the aquifer will not be able to sustain the industries and people now dependent on the water supply. These areas of decline are where the interdisciplinary team of K-State researchers—from agronomy, agricultural economics, political science, sociology and landscape architecture—is focusing its study of the intersection of people and the water supply.

And bringing all of the data together from these entities is Daniel Andresen, associate professor of computing and information science. Using the state’s largest academic research supercomputer, K-State’s Beocat, Andresen will be able to run policy scenarios and show their outcomes in the various categories.

This project builds on work by K-State’s Consortium for Global Research on Water-Based Economies, an interdisciplinary team formed in 2001.

—K-State Media Relations



David Steward

2010 SEATON SOCIETY



The College of Engineering inducted two new members into its Hall of Fame April 23 at the Bill Snyder Family Stadium, east side club level. The following alumni honorees were recognized for their professional success and accomplishment, active involvement with and support of the College of Engineering, dedication to K-State, and professional and public service: **left**, Donald Lenhart, EE '56, retired professor of electrical engineering, Kansas State University; and **right**, Louis Von Thar, EE '83, president, General Dynamics Advanced Information Systems.



Nine College of Engineering alumni were also honored with the Professional Progress Award for success in the middle years of career accomplishment, **left to right**: Azfar Moazzam, CS '89, M.S. '91, partner, Microsoft; Andy Grolmes, BAE '00, owner and CEO, LandMark Implement, Inc.; Doug Gish, IMSE '90, partner, Deloitte Consulting; Jeff Hancock, CE '88, M.S. '00, co-owner,

SMH Consultants; Carl Huslig, EE '91, president, ITC Great Plains; Shon Yust, ARE '92, owner, Mercer Zimmerman; Tim Chadwick, CNS '90, president, MW Builders of Texas; and Warren Kennedy, CHE '90, associate vice president and marketing and sales director, Burns & McDonnell. **Inset**: Mike Brockway, ME '92, project engineering manager, CITGO Petroleum.



Attention ESSI alumni

A banquet honoring the 45th Annual Engineering and Science Summer Institute was held at K-State on June 4. Current ESSI organizers would like to compile a database of alumni members of the summer institute, as well as hear any stories or memories of the event such persons would like to share. ESSI alumni are encouraged to send this information

and/or their name, mailing address, phone number and email address to

Director
45th Annual ESSI
1056 Rathbone Hall
Manhattan, KS 66506

or engineer.career@ksu.edu

Gib and Brenda Compton

Pickin' up the K-State spirit

Gib Compton didn't plan on majoring in construction science. As a matter of fact, he really didn't plan to go to college at all.

"Coming out of high school in Wichita, I wanted to be a finish carpenter," he said. "I liked to work with my hands and thought I was pretty good at making things, so this was the route I'd decided to take"

But his family kept encouraging him to consider higher education.

"I knew I didn't want to go to 'Hillside High,'" Gib said, "as Wichita State was referred to by the local kids. So that summer I traveled to Manhattan a few times, attended some rush parties—and the rest is history."

And part of that history led to the Compton Construction Corporation, Wichita, Kan., founded by Gib in 1997 upon the core values of "treat people fairly, work hard, and don't worry about the rest, all the while providing a quality product for the client."

"We've had huge success since 1997 following those principles," Gib said.

Last year Compton Construction moved to number 11 on a listing of the Wichita area's top-20 general contractors. Building projects focus on various types of commercial operations including educational, industrial, religious, retail, medical and food service areas.

"I always wanted to be listed on the Top 400 Engineering News Record," Gib said. "I'm not there yet and doubt I'll make it, but number 11 on the Wichita list is not bad."

Gib had started his educational training at K-State in architecture, but soon found it wasn't his forte. "When I looked into the construction science program, it just seemed a more natural fit. It opened so many doors for learning and working opportunities. My construction science education really got me started on the right foot to a career I've been blessed by.

"Graduates of the ARE/CNS program are sometimes called the 'renegades' of engineering," Gib said, "and that's partly because so many of the faculty bring industry experience and expertise to their teaching. I think that's also a reason why industry support is so strong for our department."

"ARE/CNS emphasizes the K-State family aspect that means so much to us," said Brenda Compton, the self-named 'silent partner' of the Comptons.

Brenda, a K-State graduate in health and P.E. and currently a special education teacher at Clearwater High School, said the contrast has been striking between her and Gib's departments over the years as they've come back to campus for various alumni events.

"In CNS, you find many original faculty members are either still around or are staying connected, and it's really been fun to renew those friendships. Whereas my original department of kinesiology," she said, "doesn't even exist in the same form anymore, much less have a longevity record of connected faculty and graduates."

In keeping with the state-of-the-college theme, Gib said, "And



from my perspective, I'm also really excited about what Dean English brings to the table for K-State engineering, as well as Dave Fritchen as head of ARE/CNS—I think they're both extremely talented individuals at their respective levels of leadership."

Though both K-State graduates, Gib and Brenda did not meet on campus.

"We wouldn't have been in the same circles at K-State—no greek life for me," Brenda said. "I was an independent and lived in the dorms."

"She probably wouldn't have had anything to do with me if we had met then," Gib said.

Brenda's translation: "I think he 'minored' in Aggieville while at K-State."

Where they did meet was in Liberal, Kan., where Brenda was teaching at a junior high school and Gib was working on a construction project building a new high school. They were living in the same apartment complex, and as Gib put it, "The apartment manager played matchmaker."

The time spent in Liberal was a part of the years Gib refers to as "my very own training program."

After graduation in 1980, his first job was with a contractor in

Hutchinson. Next he returned to Manhattan with a similar company, then it was back to Hutchinson through 1988. The Comptons next relocated to Rogers, Ark., with another construction firm, but as Gib said, "My Kansas farm girl wanted to come back to our home state, so I decided to sign on as a project estimator with a Wichita firm."

The next career move was going into manufacturing with his dad, who had purchased an electric sign company. That venture lasted for one year, followed by a stint in millwork and then as a consultant to a bonding company.

"Each of those jobs was preparing me for my long-term goal of owning my own construction business by 2000," Gib said.

Throughout that time and until today, Gib and Brenda have maintained their K-State connection. Both are active in the local Wichita K-State Alumni Committee and Wichita Catbackers organization, and Gib recently completed a four-year term on the K-State Alumni Board. He currently serves on both the Construction Science Advisory Council and the K-State Alumni Center Building Committee.

"I like being involved," he said.

And that connection has involved a financial investment as well. Currently they support the Gib and Brenda Compton Construction Science Scholarship and have endowed the Brenda and Gib Alumni Association Scholarship for Wichita-area youth who will be freshmen at K-State.

"With Brenda being a professional educator, and me considering myself a champion of education, it is very important to us to support educational efforts through both our time and finances," Gib said.

"Through our estate, something we've set up with deferred gifting," Brenda said, "we will eventually also provide for additional scholarships in general education, construction science and second-tier athletics, as well as general Alumni Association scholarships and funding for the K-State Gardens."

"Because we have no children," Gib said, "we've chosen to one day leave what we have to our 'purple family' and its descendants. And until that time, we will continue doing all we can to contribute to the future of K-State."

—by Mary Rankin

The story of the pickup
on page 13

K-State CIS group— Designing for information security

As computers increasingly transfer patient medical records and other sensitive information, a group of computer scientists at Kansas State University is doing basic research that will help designers keep such information safe.

Complex information systems form foundations in our nation's infrastructure and defense forces, and these systems contain data with different security levels, said John Hatcliff, K-State professor of computing and information sciences. As data are exchanged between various users, there's a danger that information could be released to unauthorized parties.

The ability to guarantee secure information flow is becoming more critical as government and industry push toward increasingly complex information systems in many areas, including health care, the military and in coordinating disaster relief, Hatcliff said. That's why K-State computer scientists are developing high-level policy languages and verification techniques to strengthen the security and integrity of such systems.

"Whether it's health care or military information, what people really want is the ability to push information out rapidly to anyone who needs it," Hatcliff said. "You may have a doctor trying to make a diagnosis or a platoon leader trying to coordinate a maneuver in the context of a larger battlefield operation. In either case, more information leads to better decision making and better outcomes. However, you have to make sure as you're aggressively pushing information to decision makers that you don't inadvertently leak sensitive information to someone who shouldn't be seeing it."

Hatcliff leads K-State's Specification, Analysis and Transformation of Software laboratory. The other computing and information sciences faculty researchers in the lab are associate professors Turban Amtoft and Robby, and assistant professor Simon Ou. These researchers do work in security, software engineering, programming language semantics and automatic analysis of computer software.

In March 2009, the research group, in collaboration with researchers at Princeton University, received a five-year, \$3 million grant from the Air Force Office of Scientific Research. The researchers are developing tools to secure information systems so that when information is transferred across large systems, there is confidence that nothing is accidentally revealed.

"We're doing foundational research on novel forms of mathematical models and logics that enable designers and analysts to precisely state what information is allowed to flow from one point to another and under what conditions," Hatcliff said. "Then we're building tools to help people use those mathematical techniques to verify that their systems are correct."

The researchers also are receiving funding from Rockwell Collins, a company that creates communications and aviation electron-

ics. The work with Rockwell Collins involves applying the K-State research team's verification tools to several systems being developed in U.S. Department of Defense security research projects.

Hatcliff said information leakage is a concern in many domains, like potential integration in the health care system with patients' medical records.

"Millions of dollars are being invested by federal and state governments to set up health information exchanges," Hatcliff said.

"The idea of such an exchange is that you have a technology organization that facilitates and mediates the exchange of patient medical information between a variety of parties. The challenge is that the information in patients' records has different levels of sensitivity or security. These exchanges eventually are going to need a way to specify policies describing what information can be released and to whom, and the exchange will need to guarantee that those policies are adhered to."

Hatcliff said K-State's research shows promise for addressing these issues because it involves creating mathematical and logical models that can be used by special computer-based auditing programs to guarantee that an information system conforms to the stated information flow policy.

The researchers' tools also provide graphical visualizations of information flowing through a system so that designers and auditors can more quickly understand a system's information flow behavior. The research focuses on systems where very high levels of assurance are required, and it aims to prove conformance to information flow policies during a certification phase before a system is deployed.

"It's pretty rare in the software engineering and verification research community that you receive a significant amount of money to fund basic research and also have a company that's doing such advanced work fund you to take your basic research and apply it," Hatcliff said.

The collaboration with Princeton University is with Andrew Appel, professor and chair of Princeton's computer science department.

"We're very good at building tools that help programmers actually apply some of these techniques to real programs, and Andrew's very good at developing the

underlying math and logic," Hatcliff said. "We're working together to come up with an even better collection of tools."

Through collaboration stipulations, the universities will provide student visits and exchanges. The grant also funds work for four graduate students and two undergraduates at K-State.

K-State's CIS SAnToS research group has been awarded more than \$12 million of research funding the past 10 years. The group's tools have been used in numerous academic research groups and by various industries worldwide.

—K-State Media Relations



John Hatcliff

"Whether it's health care or military information, what people really want is the ability to push information out rapidly..."

Gallagher honored with scholarship



Richard Gallagher

Funds have recently been established to honor the service of former College of Engineering Associate Dean for Academics and Administration, Richard Gallagher. In phased retirement since January 2009, Gallagher

entered full-time retirement in June 2010.

Contributions to the Richard R. and Linda C. Gallagher Family Scholarship in Engineering may be made to the KSU Foundation, 2323 Anderson Avenue, Suite 500, Manhattan, KS 66502, Reference fund T65500.

The scholarship is designated for support of student leaders of Engineering Student Council, Steel Ring and Engineering Ambassadors. Gallagher, always active in student leadership advisory roles, was named Blue Key National Honorary Advisor of the Year in 2006.

Gallagher earned B.S., M.S. and Ph.D. degrees in electrical engineering from Iowa State University in 1964, 1966 and 1968, respectively. He joined the faculty of the department of electrical engineering at K-State and progressed through the ranks to full professor. He assumed the lead role in development of the department's interdisciplinary academic option in bioengineering. In July 2006, Gallagher was appointed interim dean for the College of Engineering and served in this capacity for one year.

Gallagher has received many departmental, college and university teaching awards and was presented the American Society for Engineering Education's Western Electric Fund Award. He has served on numerous university committees, held the position of K-State Faculty Senate President and served as the university's ombudsperson for seven years. Holding memberships in several honor and professional societies, he currently serves as an ABET EAC program evaluator and also serves on the board of directors, and is a past president of the Rocky Mountain Bioengineering Symposium. He has served, as well, as chairman for the Biomedical Division of ASEE.

Career fair



Students distribute resumes and wait to talk to representatives at the Engineering Career Fair, Feb. 9 in the K-State Union. More than 80 engineering and computer science companies were in attendance to talk with students about opportunities for full-time, and internship and cooperative work/study positions.

Telefund 2010



Callers from the College of Engineering saw increases in pledges, dollars pledged and first-time donors over the previous year's efforts during Telefund 2010, Jan. 31-Feb. 4. The all-volunteer campaign realized the following results for the college: total number of pledges—2,584; total dollars pledged—\$294,938; and first-time donors—160. University wide, more than \$1,200,000 was raised to provide scholarships and educational benefits for the university's nine academic colleges.

WESP named outstanding program

K-State's Women in Engineering and Science Program (WESP) has received the Women in Engineering Program Award as the nation's outstanding Women in Engineering program. The award, from the Women in Engineering Pro-Active Network, was presented at the network's joint conference with the National Association of Multicultural Engineering Program Advocates, April 12–14, in Baltimore, Md.

The award is presented annually to one outstanding Women in Engineering program that is serving as a model for other institutions. To be considered, the program has to have been in existence for five or more years and have assessment data that shows how the program has made an impact.

"WESP designs and implements programs that make K-State a better place for women to pursue their interests in science and engineering," Kimberly Douglas-

Mankin, WESP director, said. "Programming is structured around three purposes: promoting awareness, building community and providing support."



Kimberly Douglas-Mankin

The program offers GROW— Girls Researching Our World and EXCITE!— EXploring sCIence, Technology and Engineering—for middle school- to high school-age girls; Scholars Assisting Scholars, a free tutoring program for engineering and the sciences that employs K-State students who actually attend the class they

tutor; CSI or Campus Internship program, gives first-year students the opportunity to participate in academic research in their discipline early in their college careers; and CONNECT, a program that helps family members understand how to support student success in engineering or science.

"WESP has made a difference at K-State by building programs that allow students, faculty and staff to share their enthusiasm and passion for science and engineering, and build relationships with those who are younger in terms of age or knowledge," Douglas-Mankin said. "Programs are designed to maximize impact while minimizing the time investment of those who contribute. We are a catalyst for recruiting and retaining women in engineering and science."

"WESP is unique in that it builds programs to address the needs of female students—but WESP programs are accessible to everyone, not exclusively women," she said. "WESP also develops new tools to document our successes and failures so we can assess if programs are having an impact. This allows others to see the value of what we've done, and helps us all be smarter as we invest in future scientists and engineers."

The Women in Engineering Pro-Active Network is a national not-for-profit organization with more than 600 members.

—K-State Media Relations



Tummons wins Goldwater continued from page 2

when I graduated, and I don't know if I would have come to this realization if it was not for Professor Bolton and Dean Hohenbary."

Tummons has been researching the population decline of the Yosemite toad, specifically focusing on the effect that climate change has had on the population because of decreases in the annual snowfall in the Sierra Nevada in the last decade. She is continuing her REU summer project.

"This summer," she said, "my plans include two weeks of study in the Amazon rainforest, where I will focus on the economic interests that compete with the sensitive environment of the region. After I return, I have an internship with Burns and McDonnell's environmental services and permitting group."

Tummons plans to use the Goldwater Scholarship for one year before graduating with a B.S. in biological systems engineering and a secondary major in natural resources and environmental sciences in May 2011.

"After I earn my Ph.D. in environmental engineering," she said, "I plan to work at a research university, studying water quality and sustainable methods for producing and supplying drinkable water. I believe access to quality drinking water from

sustainable sources is a fundamental human need, and that is why I would also like to work with Engineers Without Borders, to discover ways to make disease- and contaminant-free water a reality in developing countries."

Tummons is a member of Tau Beta Pi engineering honor society, National Society of Collegiate Scholars and Golden Key international honor society. She is a member of Alpha Chi Omega sorority, where she was the environmental chair and a participant in the sorority's intramurals. She has received the Medallion Scholarship, Beckman Memorial Scholarship, the Regan Scholarship and College of Engineering scholarships through the Kansas State University Foundation. A 2007 graduate of St. Teresa's Academy, she is the daughter of Philip and Louann Tummons of Leawood.

With 66 total Goldwater Scholars, K-State ranks first in the nation among 500 public universities. The scholarship competition is for outstanding science, mathematics or engineering students who have a potential for and a commitment to a career in their field.

—by Mary Rankin

NOTEWORTHY

Paulson named Alumni Fellow

Thomas C. Paulson was named 2010 College of Engineering Alumni Fellow in recognition of his distinguished career. A native Kansan from Topeka, he earned his B.S. in



Thomas Paulson

civil engineering from Kansas State University in 1973.

Paulson joined the Phillips Petroleum Company in 1975 as a process and mechanical engineer in Kansas City. After various assignments in Norway, he became lead project manager on the Ekofisk Jack-Up project there in 1986. He was project manager for the offshore Judy/Joanne Field Development in the UK from 1991 to 1995. In 2000, he relocated to Qatar where he concurrently executed the Qatar Chemical and Qatar Petroleum NGL-4 projects.

At the time of the ConocoPhillips merger in 2002, Paulson became manager, infrastructure engineering and project management, Upstream Technology. In 2003, he was appointed vice president, capital projects—Qatar. In 2005, he relocated to Canada and assumed the post from which he eventually retired: vice president, capital projects, Conoco-Phillips Canada.

Paulson is a licensed professional engineer in Oklahoma and a member of the National Society of Professional Engineers, the Oklahoma Society of Professional Engineers and Sigma Phi Epsilon fraternity.

He and his wife, Connie, have one son and two grandchildren.

Company/Leader of the Year

Hutton Construction Corporation was named the 2010 Company of the Year at the Tau Beta Pi Spring Awards Banquet April 28. Mark Hutton, K-State alum and founder and president of Hutton Construction, was named 2010 Leader of the Year.

Mark Hutton formed Hutton Construction Corporation and began operations as president in



Mark Hutton

1992. Since then, the company has successfully constructed projects totaling more than \$0.5 billion. Those undertakings include health care, institutional, recreational, retail, office, manufacturing, educational and religious facilities.

Over the past 16 years, annual volume of the company has grown to more than \$65 million in 2007 and nearing \$90 million in 2008. This growth is credited to a construction management system that reinforces the partnering relationship with the owner and

architect to insure a successful project. The company enjoys a strong reputation for leadership, proactive management and good working relationships with owners, architects, subcontractors and suppliers. Based in Wichita, Kan., Hutton Construction Corporation has completed projects throughout the region including western Kansas, Oklahoma, Missouri and Texas.

Hutton graduated from K-State in 1977 with a B.S. in construction science. He is a past president of the Associated General Contractors of Kansas and currently serves as a national director for the Associated General Contractors of America. He volunteers as chairman of the K-State Construction Science Advisory Board, serves as a K-State Foundation Trustee and is a director for Youth Horizons.

He and his wife, Mary, have two sons. Ben is a 2003 K-State graduate in construction science and Brian a 2006 graduate in kinesiology at K-State.

Smith cited for distinguished service

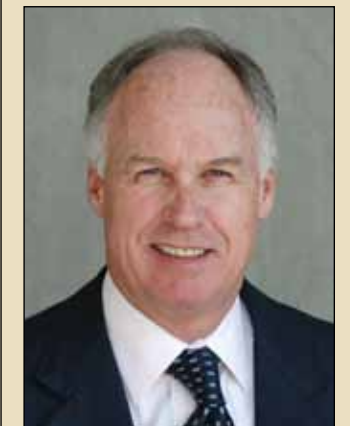
Douglas G. Smith received the 2010 College of Engineering Distinguished Service Award at graduation ceremonies May 15, where he also served as commencement speaker for the class of 2010.

Smith earned a B.S. in civil engineering from Kansas State University in 1971 and an M.S. in civil and environmental engineering from the University of Colorado at Boulder in 1975. In 1989 he was awarded a Juris Doctor from the University of Denver. He completed the senior executive programme in residence at the London Business School in 1999.

He joined Tetra Tech, Inc. in 2005 as senior vice

president and president of Infrastructure Services and now has nearly 35 years of infrastructure industry experience focused on water infrastructure engineering. He had previously been with MWH Global, Inc., where he was senior vice president of strategic planning.

Smith was employed from 1980 to 2004 with Black



Douglas Smith

& Veatch, where he was promoted to president of the Europe Water Division. While at Black & Veatch, he focused on large program business development and acquisition integration. From 1976 to 1979, he was an adjunct professor of civil engineering at the University of Colorado, Boulder, and director of public utilities for the city of Boulder.

Active in the American Water Works Association, Water Environmental Federation and Design Build Institute of America, he has authored and published more than 30 technical papers and is a regular speaker and presenter at various industry forums.

He and his wife, Cindy (nee Thompson, also a Kansas State graduate with B.S. and M.S. degrees in 1971 and 1973, respectively), have three children.

RECOGNITIONS

1956

John Brooks Slaughter (EE) has joined USC as professor of education and engineering, with a joint appointment at the USC Rossier School of Education and the USC Viterbi School of Engineering. He will focus on what has become his lifelong quest of increasing under-represented minority participation in the STEM fields. Slaughter holds an M.S. in engineering from UCLA and a Ph.D. in engineering science from the University of California.

1976

Mark G. Snyder (CE) has been appointed as an executive vice president with Prudent Technologies, Inc., a 130-employee engineer/constructor in environmental services, remediation and civil construction, Kansas City, Mo. He had previously been with Black & Veatch for 34 years.

1986

Kevin Honomichl (CE), Overland Park, Kan., has been awarded the American Council of Engineering Companies of Kansas 2009 Public Improvement Award for efforts on the Prescott Plaza Redevelopment Project.

1989

Shane Pouch (CNS) recently became a project manager and scheduler for the Kansas City, Mo.-based commercial mechanical contractor, U.S. Engineering Company.

2001

Karthi Karthikeyan (BAE), an assistant professor in the biological and agricultural engineering department at Texas A&M, recently received the Montague CTE Scholar Award, which recognizes the science and art of teaching and learning.

DEATHS

Paul Stevenson, K-State emeritus professor of biological and agricultural engineering, died Dec. 4, 2009, in Wamego, Kan. He was a faculty member for 27 years and was highly regarded for his ability to teach technical subject matter.

ALUMNI PROFILES

1946

John E. Wherry (CE) died Dec. 5, 2009, in Wichita, Kan. He served as instructor of applied mechanics at K-State and head of the engineering department at the New Mexico Institute of Mining and Technology before embarking on a 32-year career with the Boeing Company. He retired from Boeing in 1984. He is survived by his wife of 60 years, Louise, and two daughters.

1947

Lloyd Smith (ME) died Dec. 29, 2009, in Wichita, Kan. Founder of the S/V Tool Co., Newton, Kan., Smith specialized in hand tools for mass consumer markets. He developed and marketed a line of wind-shield scrapers and snow brushes, and a ratchet-handled screwdriver, the "Screw-ball," which was purchased by Sears for its Craftsman line of tools. He is survived by his wife, Sarah; sons, William and Randall; daughter, Deborah; and five grandchildren.

1956

George L. Snider, Jr. (EE), Orange, Calif., died Aug. 25, 2009. He is survived by his spouse, Patricia, three sons, a daughter-in-law, a granddaughter and two lazy cats.

1987

Richard A. Klover (ME), Overland Park, Kan., died Feb. 19, 2010, from melanoma cancer. He spent his entire professional career with Burns & McDonnell, having been promoted to assoc. vice president of the energy group in 2006. He was a past chairman of the American Society of Mechanical Engineers. Klover is survived by his wife, Kelly; three children, Kristi, Jamie and Andrew; granddaughter, Kaylee; parents, Paul and Carol Klover; two brothers and a sister; and many other family members.

1998

Wesley E. Revely (ME), Apple Valley, Minn., died April 16, 2010. He had been employed with Lockheed Martin in Egan, Minn., for 14 years.



Letter from an alum

I enjoyed the picture in the fall 2009 Impact of whitewashing the KS on K-Hill. You note that Tau Beta Pi initiates have performed this task since 1974. You could have noted that Sigma Tau initiates were performing this task before that time. The Epsilon chapter of Sigma Tau was chartered at Kansas State in 1920 and was absorbed into the Gamma chapter of Tau Beta Pi in 1974. I am not sure when Sigma Tau began whitewashing the KS, but I remember participating in this activity sometime between 1966 and 1968 when I was initiated into Sigma Tau.

Best regards,

Jeffrey C. Ryman, Ph.D.
Consulting Engineer
Washington Safety Management Solutions
Owner, CARABH Consulting
B.S. NE '69; Ph.D. NE '79

WANTED: YOUR UPDATES

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—

Send to: **Impact Editor**
Engineering Communications
Kansas State University
133 Ward Hall
Manhattan, KS 66506

E-mail: impact@engg.ksu.edu

Calendar

Keep up with our **College of Engineering student teams** with the following information on competitions this summer and next fall.

■ June 16–19

Formula One team, Formula SAE® California, Fontana, Calif.
<http://students.sae.org/competitions/formulaseries/west/>

■ June 20–23

BAE Robotic and Fountain Wars teams, ASABE 2010 International Mtg., Pittsburg, Pa.
<http://www.asabemeetings.org/>

■ July 11–15

CIS Robotics team, AAAI Conference on Artificial Intelligence, Atlanta, Ga.
<http://cs.ua.edu/aaairobotics2010/>

■ Nov. 7

ChemE Car team, AIChE Annual Meeting, Salt Lake City, Utah
<http://www.aiche.org/Conferences/AnnualMeeting/index.aspx>

K-State Women in Engineering and Science Program (WESP)
summer offerings for young women:

■ June 9–11

GROW Summer Workshop, K-State campus,
<http://wesp.k-state.edu/>
The Girls Researching Our World (GROW) program is in its 10th year of delivering summer workshop activities for middle school girls interested in science and engineering.

■ June 23–25

EXCITE! Summer Workshop, K-State campus,
<http://wesp.k-state.edu/>
The Exploring sCIence Technology and Engineering (EXCITE!) program offers hands-on experiences for high school-age young women to prepare them for careers in science and engineering.

Interested in knowing about all upcoming WESP activities for junior high and high school students? Go to <http://wesp.k-state.edu/> and sign up to receive the monthly GROW/EXCITE! newsletters.

The transformation

related story on page 6



Those attending K-State Open House this spring may have seen the eye-catching purple and white vintage Chevrolet truck parked at the Engineering Complex. Owner Gib Compton, CNS '80, and founder of Compton Construction Corporation, Wichita, shared the story of its restoration, complete with its K-State roots.

"I bought the truck, a 1949 Chevy, at an auction for \$150 my junior year in high school," Gib said. "It'd been a service station vehicle for Yost and Sons' Phillips 66 Station in Hillsboro, Kan., and burned as much oil as gas when I got it. I immediately rebuilt the motor, transmission and rear end, and then the summer before my freshman year at K-State, I did some body work on it and repainted it black before driving it to campus."

But the truck's K-State venue was short-lived. "I only had it at school one year," Gib said. "It didn't run up and down the highway between Manhattan and my home in Wichita as fast as I would have liked, plus it seemed I was always being called on at the fraternity house to haul this or that. When I came back with a car my sophomore year, I no longer had to deal with those tasks."

The Chevy was driven even less often after Gib met and married his wife, Brenda, and in 1983, he parked it in her parents' farm machine shed and there it stayed until July 2005. By that time, Gib said, the mice had got into it pretty good—chewing the wiring and tires up.

"I'd been given a gift of a purple and white, 2000 Danbury Mint Collectible, 1949 model truck," he said, "and had decided to restore my old truck to look like it.

"I bartered with a friend—my construction services for his mechanical ability. We took the company truck and trailer to the farm and hauled my Chevy back to Wichita. To make a long story short, I added on a garage for my friend and he, after convincing me I needed a 'frame-off' reconstruction, tore the truck completely apart and then quit on the project."

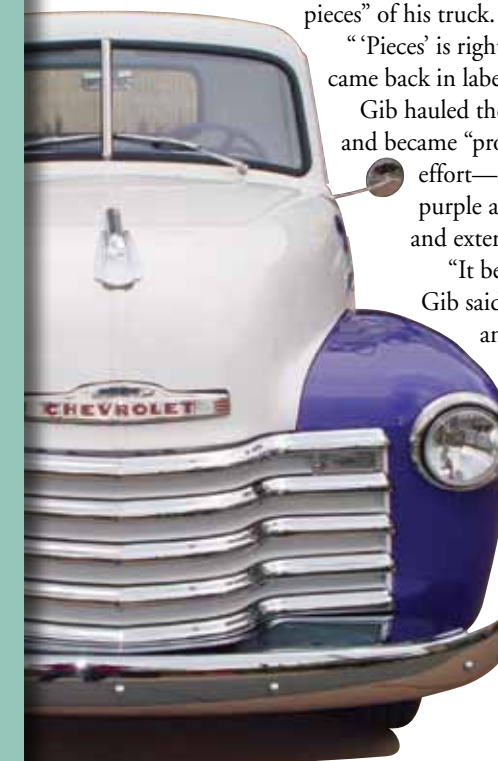
Deciding he'd delayed on the restoration long enough, Gib one day drove the company trailer back to his friends' workshop and literally "picked up the pieces" of his truck.

"Pieces' is right," Brenda said. "Much of that truck came back in labeled zip-locked baggies."

Gib hauled the parts to Compton Construction and became "project manager" of the restoration effort—ending up with a customized, purple and white truck—all new interior and exterior, new motor—the works.

"It became our life-sized K-State 'toy,'" Gib said. "We drive it some in the summers and have brought it up to be in the homecoming parade a few times—often transporting student or alumni leadership in it. This past year 'first son' Andrew Schulz rode with us. And then we take it to the West Stadium parking lot the next day for a tailgate party prior to the game."

—by Mary Rankin



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 Clyde Howard, Director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, (Phone) 785-532-6220; (TTY) 785-532-4807. 56415-6/10-23,150

A different kind of spring break

K-State engineering students, **right**, listen in as Turner Construction officials explain details of the on-site concrete process involved in recent upgrades of Arrowhead Stadium, one stop of the Spring Break Alternative, March 14–17. Traveling by bus, 29 engineering students from eight different disciplines learned about potential career options, toured corporate and manufacturing facilities, and networked with industry professionals in Kansas City and Topeka.

Campus sponsors of the event were the College of Engineering as well as K-State Career and Employment Services; corporate sponsors were Cerner, Hallmark and Westar Energy. Students were offered a first-hand look at behind-the-scene activities at Black & Veatch, Burns & McDonnell, Cerner, Garmin, Hallmark, Missouri Department of Transportation, Stowers Institute for Medical Research, Turner Construction and Westar. On-site project visits included Arrowhead and MODOT's Kansas City Icon Bridge project.

