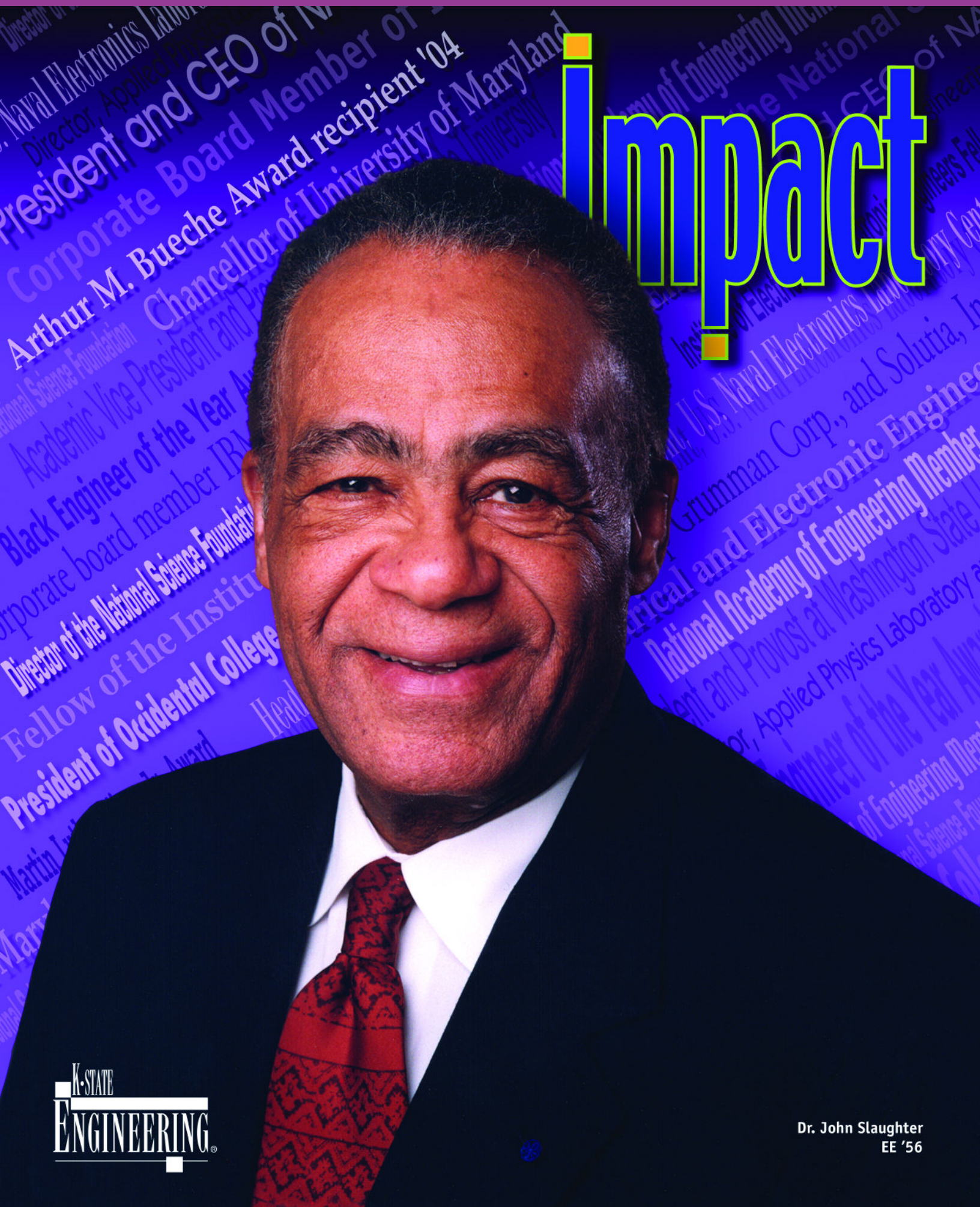
College of Engineering ■ Kansas State University ■ Fall 2004

Impact



Dr. John Slaughter
EE '56

K-STATE ENGINEERING®

Impact

AMI... engineering success

Mel Beikmann, **above,** associate engineer at AMI, demonstrates the 42CB applicator, which simultaneously mixes and applies recently developed decontamination liquids for both chemical and biological warfare agents. He designed and produced a prototype of the applicator at AMI following a request from NanoScale Materials, Inc. for a dispensing system. The 42CB uses two separate plastic pressure tanks to store two liquid chemicals. When an area needs to be decontaminated, a replaceable nitrogen cylinder pressurizes the liquids, which are individually measured and mixed, using a specially designed spray valve.

Since its inception in 1985, the Advanced Manufacturing Institute (AMI) has developed a reputation for engineering success—success for businesses, entrepreneurs, university faculty researchers, and students.

A component of the College of Engineering at Kansas State University, AMI provides an array of resources to advance technologies, people, and companies through collaborative engineering and business partnerships.

With a full-service product and process development and training center, equipped with cutting-edge manufacturing hardware and software, AMI utilizes their applied research expertise to develop and transfer new technologies and provide technical assistance to industry. Services include technology development and commercialization, product design and engineering, and manufacturing process development.

Recently, AMI received two new federal economic development-focused grants, which will enable them to expand their services and accelerate new technologies in current and emerging sectors.

According to Brad Kramer, director of AMI and associate professor and department head of industrial engineering, AMI received a three-year award from the National Science Foundation to support Partnerships to Accelerate Commercialization of Kansas Bioscience Products and Technologies. The Kansas Technology Enterprise Corporation is also a key funding partner of this NSF grant.

The partnership, which includes the Kansas Agricultural Innovation Center, K-State Bioprocessing and Industrial Value-Added Program, National Institute for Strategic Technology Acquisition and Commercialization, and the K-State Value-Added Business Development Program, will create a structured process to identify university bioscience projects for early-stage technology development. It will also create an infrastructure needed to transform knowledge, inventions, and discoveries in bioscience-related research and application into viable products; market an early-stage technology development service through the university and state; and provide a mentored experience for students seeking bioscience-related careers.

AMI is in the process of hiring a chemical engineer who will mentor engineering students to conduct chemical and bioprocess engineering technology development projects. In addition, business students will be employed to help identify potential projects and develop commercialization strategies for these projects. Students, faculty, and staff will be involved in research, development, and commercialization activities—from basic and applied research, through evaluation and selection of development projects, to the development of specific products.

"This partnership will increase the number of new value-added agricultural products brought to market and provide access to an engineering resource that can significantly accelerate the development of new bioscience-based products, processes, and technologies in Kansas," Kramer said. "Ultimately, it will impact the creation of wealth and high-paying jobs for the citizens of Kansas."

Paul Malchesky, vice president, discovery and development, NanoScale Materials, Inc., a high-tech spinout company from K-State, said, "The addition of chemical engineering expertise to AMI will enable NanoScale to more fully characterize the processes involved in various applications and material delivery systems. We recently worked with AMI on the development of a material dispersal system for military use. The AMI team was easy to work with, provided excellent communication, and kept our project on time and within budget. We appreciate having a resource like AMI available."

Gary Rabold, interim president at AgRenew, another K-State spinout company, echoed the support: "Bringing chemical engineering resources to AMI will directly benefit our work. We anticipate using AMI for some of our Phase I Small Business Innovative Research projects and most of our Phase II and Phase III SBIR projects."

continued on page 6

The DEAN'S message

"The Kansas State University College of Engineering will be the best comprehensive engineering college in the United States."

Extremely challenging words, which almost immediately raise the questions: What does it mean to "be the best"? What must we do to prove we've arrived?

To realize our vision, we must develop strategies and plans that will lead us to specific accomplishments. But there is a prestep. Before we engage in strategies, we must understand who we are. We must explain the standards that define us, because we don't want to change what K-State engineering is in order to become "the best." For example, one of our core values is that "we are inclusive." If we were to promote a project or goal that excluded a certain group of people, we would be abandoning one the basic tenets of our land-grant university heritage.

We have recently defined the following core values:

- Our faculty, staff, alumni, and students are members of a collaborative community.
- We are inclusive, while respecting the individual.
- We are ethical and professional.
- We aspire to the highest levels of scholarship.
- We serve society and provide leadership for the betterment of humanity.

As we progress toward our vision, we can check ourselves against these values to see how we're doing. A look at this issue of *Impact* may address that question in part.

How well are our alumni doing? Seaton Society members, Hall of Fame inductees, PPA winners, the advisory council, John Slaughter—prime examples of K-State engineering graduates who are ethical and professional, and who serve society and provide leadership for the betterment of humanity.

How well are our students doing? Both in teams and as individuals, they continually compete and do well against their counterparts on the national level—evidence of the highest levels of scholarship.

How well are our faculty doing? Our diverse and talented faculty have been awarded 12 prestigious NSF Young Career Awards since 1995. Add in teaching awards, successful research, and well-educated students, and we can say "yes" to upholding all five core values.

Updating our facilities through the generous support of our alumni, as with the West Seaton renovation and Corbin Conference Room, helps us to be more effective in each core value as well.

Warren Staley, EE '65, chairman and CEO of Cargill, served as one of our guest emcees at the Seaton Society banquet. He remarked on how a "small land-grant university . . . could grow to produce some of the top engineers in the country." His explanation of this phenomenon was really one of defining our core values, of saying who we are. "K-State engineering is a place where faculty place an emphasis on teaching and students get to know their professors," he said, where there's an "emphasis on a comprehensive engineering education anchored in the basics," and where our students "come to college with a work ethic that steers them through one of the toughest curricula, and then propels them through their careers."

If this is who we are, how well are we doing?

Terry S. King

Terry S. King, Dean

Student teams continue to excel

Fountain wars

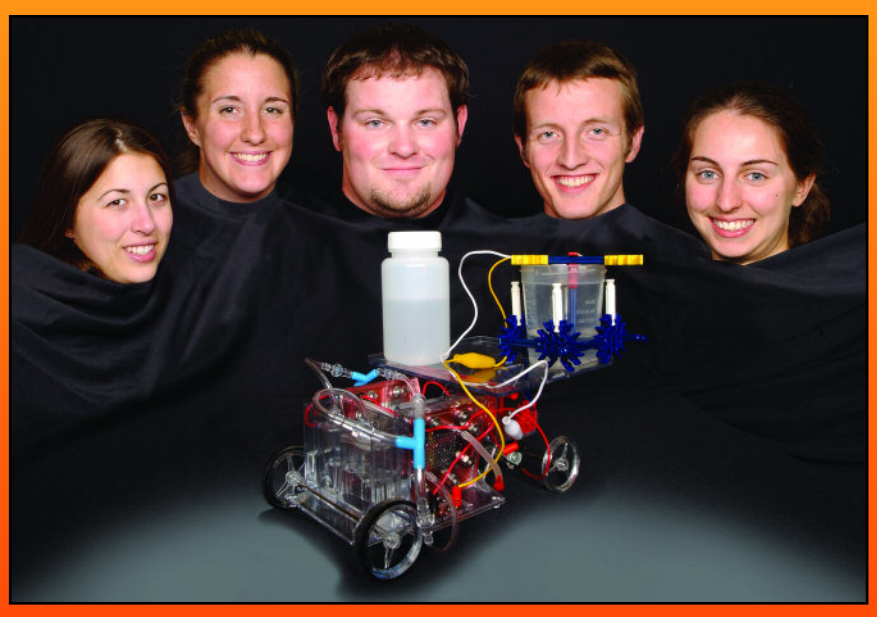
The K-State Fountain Wars Team took home the first-place trophy from the 2004 American Society of Agricultural Engineers Gunlogson Environmental Student Design Competition in August, a part of the ASAE International Annual Meeting in Ottawa, Canada. Teams are given 90 minutes to build their system and have it ready to launch and support objects, using only the force of water from the pump and a mechanical system designed to accumulate and release stored energy. Team members and their winning entry are pictured **above**: **(left to right)** Brian Severin, senior in BAE; Chris Nichols and Nick Rodina, BAE spring '04 graduates; and Matt Crockett, senior in BAE.

Whale-tail hitch

Powercat pullers

The K-State Powercat Pullers placed third in the 2004 American Society of Agricultural Engineers International Quarter-Scale Tractor Student Design Competition in Moline, Ill.

K-State is the only team to place in the top three, including four firsts, continuously since 1999. The competition began in 1998. This year's design featured a whale-tail hitch, which increased traction and reduced resistance during the pulling phase of the competition. Pictured **above** with K-State's entry is team driver, Kyle Riebel, senior in BAE.



ChemE car

The K-State student chapter of the American Institute of Chemical Engineers took third place in the ChemE car competition at the Midwest Regional AIChE meeting in Tulsa, Okla., last April, qualifying them for the national competition in Austin, Texas, in November, where they placed sixth. The V3 Electrostroke, K-State's chemical reaction-powered winning entry, **left**, is surrounded by team members, all seniors in ChE: **(left to right)** Ashley Robertson, Jenny Burgdorfer, Ty McGown, Tyler Selbe, and Gina Mercurio.

First NACME scholars

Eric Strom and Joshua Cook

The College of Engineering has established, in partnership with the National Action Council for Minorities in Engineering (NACME), $146,000 in scholarship support for minority (African-American, Latino, and Native American) engineering students.

The five-year commitment began with the fall 2004 semester, where two incoming freshmen, Joshua Cook and Eric Strom, receive full coverage of tuition and fees, in addition to a $2,000 bonus to encourage focus on studies rather than work during their first year in the engineering program. For each student, the four-year package will be a $20,000 scholarship.

Cook, a Native American from Ft. Scott, Kan., is enrolled in general engineering, and Strom, a Mexican-American, from Winfield, Kan., is a computer science major.

"The number of NACME scholars will increase by two every year, until we reach a total of eight," said Richard Gallagher, associate dean for academics and administration in the College of Engineering. "In year five, we will continue the program with eight scholars, bringing two new freshmen in and graduating the first two."

Through this partnership with the National Action Council for Minorities in Engineering, the designated scholars will have opportunity to participate in the NACME internship and job placement programs, as well as have access to electronic forums discussing issues pertinent to minorities in engineering.

The National Action Council for Minorities in Engineering is the nation's largest private source of engineering scholarships for African-American, Latino, and Native Americans.

A LEGACY OF leadership & innovation

The recipient
Dr. John Brooks Slaughter
President and CEO, National Action Council for Minorities in Engineering, Inc. (NACME)

The award
The National Academy of Engineering established the Arthur M. Bueche Award in 1982 to recognize statesmanship in science and technology, as well as active involvement in determining U.S. science and technology policy, promoting technological development, and contributing to enhancement of the relationship between, industries, government, and universities.

Educational background
- B.S., electrical engineering, 1956, Kansas State University
- M.S., engineering, 1961, University of California, Los Angeles
- Ph.D., engineering science (engineering physics), 1971, University of California, San Diego

Professional career
- Irving R. Melbo Professor of Leadership in Education, University of Southern California, 1999–2000
- President of Occidental College, Los Angeles, Calif., 1988–1999
- Chancellor of University of Maryland, College Park, 1982–1988
- Director of the National Science Foundation, 1980–1982
- Academic Vice President and Provost at Washington State University, 1979–1980
- Assistant Director of the National Science Foundation, 1977–1979
- Director, Applied Physics Laboratory and Professor, Electrical Engineering, University of Washington, 1975–1977
- Head of Information Systems Technology Department, U.S. Naval Electronics Laboratory Center, 1960–1975
- Electronics Engineer, General Dynamics Corporation, 1956–1960

Special distinctions
- Honorary degrees awarded from 24 colleges and universities across the nation
- First recipient of the Black Engineer of the Year Award
- Member of the National Academy of Engineering
- Fellow of the Institute of Electrical and Electronic Engineers
- Recipient of the Martin Luther King, Jr. Award
- Corporate board member of IBM, Northrop Grumman Corp., and Solutia, Inc.
- Other awards, professional and civic activities, and publications, too numerous to mention

What others have said
- "Only a small number of people are able to achieve the level of influence in both science and engineering as demonstrated by Dr. Slaughter's term of service at the National Science Foundation during which the NSF Directorate of Engineering was established, putting engineering research endeavors on a par with the sciences."
  Terry S. King, Dean of the College of Engineering, Kansas State University

- "The energy he [Dr. Slaughter] brings to his work and his ability to lead . . . are truly exemplary. He generates ideas without being constrained by traditional views . . . . He consistently demonstrates outstanding inventiveness, keen technical judgment, and an unmatched sense of responsibility and commitment to developing a new generation of American technical leaders."
  Nicholas M. Donofrio, Senior Vice President, Technology and Manufacturing, IBM

- "I have had the privilege of working with John Slaughter in a number of venues and consider him to be a wise counselor as well as one who has accomplished a great deal to advance American engineering and technology through statesmanship, leadership, and administration."
  Charles M. Vest, President, Massachusetts Institute of Technology

- "We were students together in junior high school, high school, and then fellow engineering students at Kansas State University . . . . I can attest to Dr. Slaughter's superior intelligence, great integrity . . . and his effectiveness as a spirited team leader . . . . He is a positive, effective advocate for change and the expansion of diversity, particularly in science and engineering."
  John A. Weese, Regents Professor, Mechanical Engineering, Texas A&M University

- "In the early 1980s, Dr. Slaughter was way ahead of the curve when he introduced the advantages of a multiethnic culture in our educational system during his tenure as Chancellor of the University of Maryland . . . . [His] work laid the foundation for diversity in education throughout the nation."
  James E. West, Professor of Electrical and Computer Engineering, Johns Hopkins University

John Brooks Slaughter recently spoke about his time at K-State, his advice to engineering students today, and winning the Bueche Award:

"When I came to Kansas State in 1953," John Slaughter said, "there were two or three African Americans in the entire engineering school, and the total number at the university was well less than 100.

"Let's just say it was not a place of overwhelming opportunity or critical mass for African American students. It was quite possible to feel isolated, but fortunately, I developed warm and lasting friendships with classmates that I still value today."

"My eyes were opened to the opportunities and excitement of engineering at Kansas State . . . ."

While Slaughter was back on the K-State campus a year and a half ago for a speaking engagement, three of those friends with long-lasting College of Engineering ties were in attendance—Don Lenhert, current K-State professor in electrical and computer engineering; Eddie Fowler, emeritus professor of electrical and computer engineering at K-State; and John Dollar, former assistant dean of the college.

"I was so very pleased they came to hear me speak," Slaughter said. "Don Lenhert and I had been roommates—125 West Stadium Hall, the one men's dorm on campus, located beneath the west-side seating of Memorial Stadium. And you'd just as well plan to go to the football games as you had to hear the crowd noise anyway."

Longtime friends, John Slaughter and Don Lenhert.

Slaughter spoke of his "wonderful" professors at K-State and his job in the electrical engineering department repairing lab instruments.

"Of course the job allowed me to earn a little money," he said, "but I also learned so much. My eyes were opened to the opportunities and excitement of engineering at Kansas State, but I also learned to manage my time, the value of hard work, and how to be prepared—three lessons that have always had a definite influence on my career."

At K-State Slaughter also had his first taste of another future aspect of his career—paving the way for minority students, at this particular point in time to the barbershop.

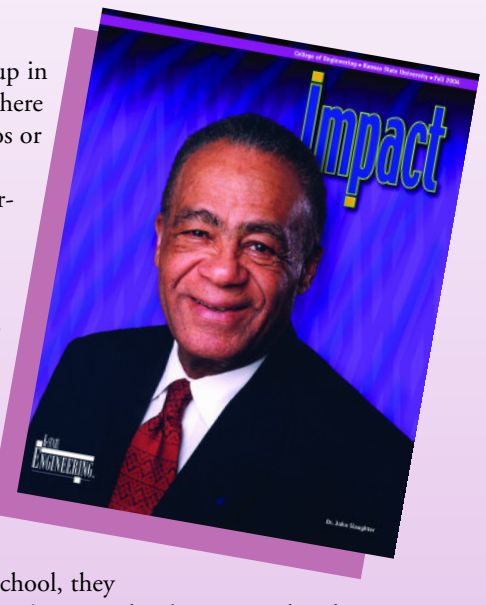
"My senior year, part of the big excitement was the opening of the newly constructed student union. One ongoing debate had been whether or not to include a

"I am not joking when I say I was the first black engineer I ever met."

barbershop in the Union," he said. "This was an important issue to me because black students could not get a haircut anywhere in Manhattan.

"And while we didn't succeed in securing that campus barbershop, publicity from the discussion put enough pressure on the local business community that finally a barber in Aggieville said he would cut our hair—and I was his first 'guinea pig'."

Another favorite line from John Slaughter: "I am not joking when I say I was the first black engineer I ever met."



Slaughter grew up in Topeka, Kansas, where at that time Latinos or African Americans were hardly encouraged to achieve in science and engineering.

"My hard-working, loving parents kindled and kept alive my spark of interest in engineering," he said. "But when I expressed that interest in public school, they assumed I wanted to 'repair radios,' so I was placed in the vocational technical program, never getting to take the key math and science classes I would need for college-level entry to an engineering program."

This led Slaughter to two years at Washburn University, the experience which in turn led to the advice he offers to any engineering student of today—minority or otherwise: "Take as many liberal arts courses as possible to broaden your education."

Slaughter admits he once resented his time spent at Washburn taking the science and math courses he'd missed out on in high school.

"But I also took history, and literature, and social studies, building a solid liberal arts background I would not have experienced had I gone straight into engineering school," he said. "And this background has given me opportunities down the road I wouldn't ordinarily have had—like spending 11 years as the president of a liberal arts institution, Occidental College."

Slaughter recognizes a conflict in today's engineering discipline in that there are increasingly more technical courses required in order to keep up with changing technology. Yet he believes engineering students must be broadly educated in mathematics, the sciences, literature, and the arts so they can acquire an appreciation for social responsibility in scientific and technological endeavors.

"My hard-working, loving parents kindled and kept alive my spark of interest in engineering."

"I tell students," he said, "they need to study both Bach and botany, both Carlyle and chemistry, both Dickinson and differential equations, both Giovanni and geometry, both Isaiah and isotopes, both Milton and molecules, both Picasso and picofarads."

In accepting the Bueche Award on Oct. 3 at ceremonies in Washington, D.C., Slaughter spoke of his appreciation for Dean Terry King for nominating him for the award and of his indebtedness to the Kansas State University College of Engineering.

"In 1956," he said, "I was the only African American graduate in engineering at the university. On a recent visit to the campus, I was pleasantly surprised to meet a large group of African American and Latino engineering students who are enjoying their engineering experiences, are supported and encouraged by a dedicated faculty and staff, and are succeeding. Although much remains to be done to eliminate disparities in access and opportunities, this is now happening on many campuses across the county."

Much credit goes to John Slaughter for helping to pave that path.

–by Mary Rankin







HALL OF FAME

2004 Seaton Society

Occasion of distinction





October 2 marked an evening of dinner and dancing, awards and honors, and a time of celebration and reflection for alumni, friends, students, and faculty of the K-State College of Engineering. Dean Terry King, in recognizing alumni and friends of the college in particular, said: "You support the programs, advise the administration, and maintain the culture and tradition that is K-State engineering. Thank you for continuing to carry out this noble task."

Recognized for lifetime professional and public service, as well as involvement and support of the College and Kansas State University, the most prestigious award bestowed by the college honored the achievement of the Class of 2004 Hall of Fame inductees, **across top of page**, **left to right:** Thomas Mistler, NE '63, '66, director, II-IV Inc.; Steven Theede, ME '74, CEO, YUKOS Oil Co.; Wayne Harms, ChE '76, president and general manager, Exxonmobil Qatar, Inc.; Nadalie Bosse, IE '80, executive vice president, Enterprise Services for Tellabs; Gary Johnston, IE '68, president, Wenger International, Inc.-retired; Charles Stryker, CE '71, president, CAS Construction, Inc.; and Larry Strecker, IE '80, president, Strecker Consulting, LLC.

Professional Progress Award

2004 Professional Progress Award recipients, recognized for significant success and accomplishment midway through their professional careers, **left to right**, **standing:** Susan Pemberton, ChE '84, engineering manager, Honeywell Federal Mfg. & Technologies; Mike Valentine, IE '90, president, Cerner Mid America; Kent Funk, BAE '84, ME '86, engineering/quality assurance manager, RHS, Inc.; David Krug, ARE '86, partner and vice president, Brack and Assoc. Consulting Engineers; and David Abrams, EE '85, vice president, Black & Veatch; **left to right**, **seated:** Rick Martineau, ME '89, '90, program manager, Los Alamos National Laboratory; Mary Lou Hines, CompSci '85, '86, '92, CIO and vice provost, Univ. of Missouri-KC; David Harris, ME '88, vice president, Black & Veatch; and Ramiro Jordan, EECE '84, '87, assoc. professor, EECE, Univ. of New Mexico. Not in attendance: Cindy Wallis-Lage, CE '85, process engineer, Black & Veatch.

Corbin conference room dedication

Terry King, Richard Corbin, and Mary Rezac

The Richard W. Corbin Chemical Engineering Conference Room in Durland Hall was dedicated Sept. 18. Corbin, ChE '59, and his wife, Mary Elizabeth, were in attendance for the event, which included remarks by both Dean Terry King and chemical engineering department head, Mary Rezac.

Corbin had provided funds to equip the newly built conference room in the early 1990s, and once again stepped forward to refurbish and modernize the facility in 2004. Changes and updates included a computer projection system allowing direct wireless connections to the Internet, new high-efficiency lighting, and replacement of orange drapes and carpeting with more up-to-date muted tones.

Ashley Robertson, ChE senior, was also introduced as a recipient of the recently established Dick Corbin Chemical Engineering Scholarship.

Corbin is retired, following a distinguished career with the Exxon Corporation and remains active in professional oil industry executive organizations. He is a member of the College of Engineering Hall of Fame and the K-State Foundation Presidents Club.

Engineering faculty members honored for teaching and research

Carl O. Riblett

Professor, ARE/CNS
Commerce Bank All-University Excellence in Teaching Award

J. Kenneth Shultis

Professor, MNE
Bob and Lila Snell Distinguished Career Award for Excellence in Undergraduate Teaching

John M. Hatcliff

Assoc. Professor, CIS
Engineering Research Excellence Award

Tom Logan

Asst. Professor, ARE/CNS
Steel Ring Award for Outstanding Advising

Steven J. Eckels

Assoc. Professor, MNE
Presidential Award for Excellence in Undergraduate Teaching

Kevin B. Lease

Assoc. Professor, MNE
Meyers-Alford Memorial Teaching Award

Yacoub M. Najjar

Professor, CE
James L. Hollis Memorial Award for Excellence in Undergraduate Teaching

West Seaton dedication highlights

*A large crowd, **right**, gathered Oct. 30 for the dedication of the West Seaton renovation. The three-year, $1.8 million project brought many needed facility updates and improvements for the BioAg and ARE/CNS departments.*

Mildred and Linda Lee, **right**, pose beside the plaque naming the Robert V. Lee Wing of West Seaton Hall, in honor of the Lees' gifts given in memory of their late husband and father, Robert Lee. **Below left**, Vern Wegerer, EE '65, left, receives birthday congratulations from ARE/CNS department head David Fritchen, right, and Dean Terry King, center. West Seaton renovation committee members, **below right**, left to right, Carl Nuzman, AgE '53; Do Sup Chung, AgE '60, '65; Dean Kays, AgE '51; Randy Coonrod, CE '74; Vern Wegerer, EE '65; Rich Kerschen, CE '64; and Stan R. Clark, AgE '67, '71.

Above, **top**, Dean Kays, AgE '51, renovation committee co-chair, right, receives congratulations from BioAg department head, Jim Koelliker, center; wife Nancy Kays, left, looks on. **Above**, Dean Terry King, left, offers thanks to Ruth Coonrod, center, and Randy Coonrod, right, representing their late husband and father, Carl Coonrod, ARE '49, who had served as co-chair of the renovation project.

MEP interim director

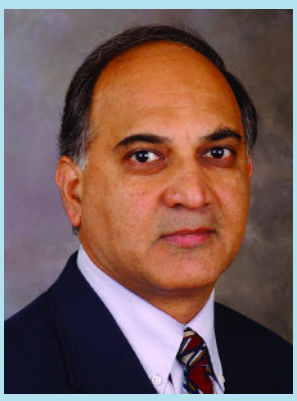
LaVerne Bitsie-Baldwin

LaVerne Bitsie-Baldwin accepted the position of interim director of the Kansas State University College of Engineering Multicultural Engineering Program and assumed her duties in August.

The K-State Multicultural Engineering Program employs a comprehensive agenda to identify, recruit, educate, and graduate African-American, Latino, and Native American students who have an aptitude for math or science.

Bitsie-Baldwin holds a B.A. from Fort Lewis College, Durango, Colo., and an M.A. from Kansas State University, both in mathematics, and is currently completing requirements for a Ph.D. in that field from K-State. She had previously been employed as a mathematics instructor at Barton County Community College, Ft. Riley, and as a supervisor for the Barton County Community College Tutor Center there.

EECE interim head



Anil Pahwa

Anil Pahwa has been named interim head of the department of electrical and computer engineering. He joined the faculty in the College of Engineering as an assistant professor in 1983, became a full professor in 1994, and has served as the graduate program coordinator of electrical and computer engineering since 2000.

He received a bachelor of engineering degree in electrical engineering from the Birla Institute of Technology and Science, Pilani, India, in 1975; and a master's degree, University of Maine at Orono, 1979, and a Ph.D., Texas A&M, 1983, both also electrical engineering.

He was awarded the rank of Fellow of the Institute of Electrical and Electronics Engineers in 2003 for his contribution to power distribution system automation and restoration, and received the Eta Kappa Nu Distinguished Faculty Award of Electrical and Computer Engineering in 2004.

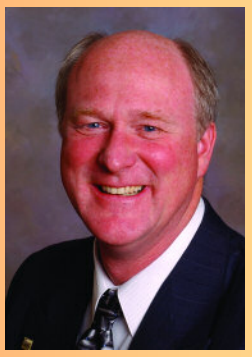
Pahwa replaced previous department head, David Soldan, who will remain with the department of electrical and computer engineering in a teaching and research role.

AMI... engineering success

continued from page 1

The second three-year grant has been awarded from the Economic Development Administration to seed fund the creation of early-stage technology development services to help bridge the gap between new technologies and commercialization. In addition to this grant, AMI will also receive funding from the Kansas Department of Commerce and the Kansas Technology Enterprise Corporation.

The early-stage technology development services will provide integrated business and technical assistance and applied research support services to small and medium-sized businesses, entrepreneurs, and university researchers. AMI will facilitate development and commercialization of new technologies and products for Kansas companies and entrepreneurs. It is expected these efforts will strengthen existing companies, assist emerging companies, and lead to the addition of new high-paying jobs in the region.



Brad Kramer

With this grant, AMI will expand their offerings by hiring a commercialization project manager. This new position will be responsible for business feasibility assessments, market characterization, and marketing strategy. AMI will also recruit undergraduate and graduate business students to their intern program to augment this area of service.

"We are very excited to expand our efforts in this area," said Jeff Tucker, associate director and operations manager at AMI. "The center will extend and accelerate product and technology development capabilities of Kansas manufacturers through the delivery of business and technical services. This will provide Kansas companies with capable scientists and engineers, and it will manage the risk in early-stage technology development through implementation of structured business and product-planning tools and processes."

"AMI has an extremely effective program and is a proven performer in its support of Kansas manufacturers, entrepreneurs, and applied research," said Terry King, dean of engineering. "AMI has been actively involved in planning future direction for Kansas State University, helping commercialize university technology, and providing connections between faculty research and industry.

In addition to its immediate impact on the state's economic development, AMI has trained more than 360 engineering, business, and computer science student interns. "We train for the future," Kramer said. "Many times our projects lead to career opportunities following graduation. Our interns are some of tomorrow's best employees, and these new grants will only allow us to expand on that claim."

—By Lea Studer, AMI Marketing and Communications Manager, with Mary Rankin

News from Alumni

1943

Grant Marburger (CHE) would like to hear from anyone in his graduating class of 60 years ago. 440 Terrace Place, Norman, OK 73069

1963

Larry Schick (EE) completed his MSEE from the Univ. of Arizona in 1966 and spent 26 years with the Burr-Brown Corp., Tucson, Ariz., in various positions of sales, marketing, and imports/exports. Since leaving there in 1992, he and his wife, Pat, are active with a Web site where they market antique and estate jewelry. They also find time to travel, golf, and enjoy the Arizona climate. sales@antiquereflections.com

1981

Marsha Meili (CE), a structural design engineer at Boeing Wichita, has been selected to receive the Society of Women Engineers 2004 Distinguished Service Award. She has held a lead engineer position at Boeing since 1989 on the B-52 and 737 airplane programs.

1982

Vicki Scharnhorst (CE) has been promoted to director of operations for the MWH Federal Group at their company headquarters in Broomfield, Colo. She has been with MWH for 18 years, a private, employee-owned firm that provides engineering design and remediation, construction, and technology management for environmental and energy and power markets worldwide. Vicki.scharnhorst@mwhglobal.com

1984

Todd Vest (ME) has accepted an international assignment with General Motors of Canada in Oshawa, Ontario. He will manage the CAE department for GM's regional engineering center. He reports that he and his family are enjoying their new surroundings in the Toronto area and will move back to southeast Michigan in 2007.

1987

Thomas J. Ellis Jr., PE (EECE), has been employed the past three years as the senior electrical engineer for a Kansas City-based electrical contractor that focuses on design/build and plan/spec construction projects. In July 2003, he and his wife, Cheryl, had their third son, Samuel Dean.

1988

Brian K. Hickman (CIS) recently received his Project Management Professional certification. He is a project manager for Boeing in Wichita.

1989

Muralidhar Theegala (IE, MS) and his wife, Karuna, announce the birth of their second son, Sahan, Feb. 5, 2004. Muralidhar is a senior program analyst managing the water systems administration for the Metropolitan Water District of Southern California, Los Angeles. mtheegala@att.net

1991

Kevin (IE) and Leslie (Deghand) **Fischer**, Topeka, announce the birth of their son, Kevin James, Dec. 19, 2003. He has an older brother, Andrew Stephen, 5, and an older sister, Abigail Ann, 3.

1992

John Bish (EE, MS) has been promoted to engineering manager of General Electric's Energy Division Controls Center of Excellence, which provides control system designs and configurations for division product lines worldwide. He and his wife, Yvonne, and son, Steven, reside in the Clear Lake area of Houston, Texas.

1993

Phillip Frazier (CHE) and his wife, Shannon (Vogel) (ElemEd '92), Frisco, Texas, announce the birth of their first child, Olivia Christine, Jan. 8, 2004. Phillip is currently working as a senior engineer for Frito Lay.

Dennis Brox (ME) and **Amy (Rathgeber) Brox** (ME '94) announce the birth of their first child, Lydia Morel, Sept. 11, 2003. Dennis is a product development engineer for Watlow in Columbia, Mo., and Amy is currently a stay-at-home mom. dnabrox@msn.com

1996

Darren Harvey (ARE) has been promoted to vice president of Smith Seckman Reid, Inc., Houston, Texas.

1997

Frank Rinaldi (ARE) and Karah Levely-Rinaldi ('96) announce the birth of Carter Joseph Rinaldi, April 8, 2004. 390 Hillview Dr., Grand Junction, CO 81503

Deaths

1932

Cecil C. Crane (CE) died Feb. 17, 2004, at the Veteran's State Home in Florence, Colo., at the age of 95. His wife, Gladys, survives him.

1950

Donald Ray Chesnut (EE) died Aug. 18, 2004, in Scottsdale, Ariz. He had worked for the Boeing Company from 1950 to 1990, completing his career as president of the Boeing Helicopter Company, Philadelphia, Pa. He was a member of the class of 1989 College of Engineering Hall of Fame and had served on the Dean's Advisory Council. His wife, Ilie, one son, three grandchildren, and two great-grandchildren survive him. One son preceded him in death.

Joseph F. Allison (ChE), Erie, Pa., died Oct. 7, 2004. He joined Autoclave Engineers, Inc. as junior engineer in 1954 and remained there until his retirement as president and CEO in 1992. He was a member of the 1990 K-State College of Engineering Hall of Fame and had served on the Dean's Advisory Council. He was preceded in death by his wife, Kathryn, and is survived by one daughter, one stepdaughter, two stepsons, six grandchildren, and two great-grandchildren.

1953

Joseph A. Sevart (AGE), Parsons, Kan., died Jan. 4, 2004. Much of his professional career was involved in the aircraft industry, including his early work in designing and building the first Lear Jet for Bill Lear. His wife, Mary Lou, two daughters, two sons, and both grandchildren and great-grandchildren survive him. One daughter preceded him in death.

1957

Edward Atch Rose (EE), San Jose, Calif., died March 11, 2004. His area of expertise was optical communications for military aircraft, spacecraft, and satellite systems. He held a U.S. patent for an Optical Communication System with Improved Bias Control for Photosensitive Input Device. His wife, Kammy, two daughters, one son, and eight grandchildren survive him.

CIS 10-year anniversary

Alumni, faculty, students, and friends of the computing and information sciences department met the weekend of Oct. 29–30 to celebrate 10 years of association with the College of Engineering. Activities began Friday evening in Nichols Hall, above, with a "Welcome Home" reception and dinner, and concluded Saturday morning in the Engineering Complex atrium with a "Decade of Excellence" brunch. Speakers at the brunch included K-State Provost Duane Nellis and College of Engineering Dean Terry King. CIS had previously been a part of the College of Arts & Sciences. The event was organized to help introduce past alumni to their new College of Engineering link, according to department head, Virgil Wallentine.

Engineering Telefund

Jan. 23–27, 2005

You can make the difference.

Impact

IMPACT is published twice a year by the Kansas State University College of Engineering, Manhattan, KS 66506-2588. It is available on the World Wide Web at www.engg.ksu.edu.

Issue No. 12 Fall 2004

Editor
Mary Rankin
Art director
Rich Gardner
Graphic designer
Bob Davis
Photographers
Dan Donnert
Al Rankin

Keep Connected

Take a few minutes to jot down job changes, births, deaths, professional or other activities, your retirement, or remembrances you'd like to share. Send your news to *Impact* by mail, e-mail, or fax, as listed to the right.

Want your classmates to contact you? Check the appropriate box and we will include your address with your news. You must indicate that you want this information printed.

Please select and list only one type of contact information for publication.

❑ Mail ❑ Phone ❑ E-mail

Name

Major/Class year

Address

Phone

E-mail address

News for *Impact*

Send to:

IMPACT Editor
Engineering Communications
Kansas State University
133 Ward Hall
Manhattan, KS 66506-2508
or e-mail: impact@engg.ksu.edu
or FAX: 785-532-6952

2004 College of Engineering Advisory Council

COEAC members met with administration, faculty, and staff Oct. 1–2, 2004.

Arnold A. Allemang
Executive Vice President, The Dow Chemical Company
Stephen Berland
President, BG Consultants, Inc.
Nadalie S. Bosse
Executive Vice President, Enterprise Services, Tellabs
Susan K. Buchanan
Founder-retired, Aurulm Software, Inc.
Richard L. Donaldson
Senior Vice President-retired, Texas Instruments
David S. Douglass
Vice President/General Manager, Honeywell Air Transport Phoenix
Larry J. Engelken
President, LEHE Ventures
Ivor J. "Ike" Evans
Vice Chairman, Union Pacific Corporation and Union Pacific Railroad
Joe E. Farrar
President and CEO, Farrar Corporation
Kent Glasscock
President, National Institute for Strategic Technology Acquisition & Commercialization
Randall D. Groves
Consultant
Carl R. Ice
Executive Vice President and Chief Operations Officer, Burlington Northern Santa Fe Railway Company
Alan F. Kessler
Vice President, R & D Engineering, Rheem Manufacturing
W. Michael Lackey
Assistant Secretary and State Transportation Engineer-retired, Kansas Department of Transportation
Charles M. "Mike" Manley
Software entrepreneur
Debra L. Miller
Secretary of Transportation, Kansas Department of Transportation
G. P. "Bud" Peterson
Provost, Rensselaer Polytechnic Institute
Marc R. Ramsdale
Chairman and CEO, Cendian Corporation
Walter F. Robinson
Principal, FuquaRobinson, Inc.
G. Rhea Serpan
President and CEO-retired, San Francisco Chamber of Commerce
Douglas G. Smith
Chief Planning Officer, MWH Global, Inc.
Robert H. Smith
Executive Vice President/COO-retired, Black & Veatch
Bill Stannard
Vice President, Raftelis Financial Consulting
Larry Strecker
President, Strecker Consulting, LLC
Charles A. Stryker
President, CAS Construction, Inc.
Alan L. Sylvester
General Manager, Non-Refining Operations, CITGO Petroleum Corporation
Timothy G. Taylor
Senior Vice President, Olefins and Polyolefins, Chevron Phillips Chemical Company
Susan C. Tholstrup
Global HS & E Manager, Customer Fulfillment, Shell Chemicals
Robert B. Thorn
Partner, Finney & Turnipseed, Transportation & Civil Engineering, L.L.P.
Greg Tucker
Director, Business Transformation, California State Auto Association

K-STATE Kansas State University®
College of Engineering
Kansas State University
1046 Rathbone Hall
Manhattan, KS 66506-5201