



THE IMPACT OF K-STATE ENGINEERING

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ENGINEERING HALL

PREFACE

This book, *The Impact of K-State Engineering*, is a continuation or second volume, if you will, of an earlier printed history of the college, *Legacy: Engineering at Kansas State University*. The first book covered the College of Engineering from its conceptual stages, to its actual formation as Mechanic Arts at the Kansas State Agriculture College in 1863, through 100 years. Structured around the leadership of the deans who oversaw the growth of the curriculum, programs of study and physical structure of the college through 1962, *Legacy* provided a unique and detailed chronicle of the development of engineering education at K-State.

With this present book, our goal was to continue the history of the college, from 1965 through 2018, by extracting news and photos from the archived issues of *Impact* magazine. This timeline worked well for two reasons: *Impact* became the college's official annual publication for alumni, friends and parents of current students in 1965; and the fall 2018 magazine was the final issue published before the college's official name change to the Carl R. Ice College of Engineering in late 2018.

What you'll find in the following pages are selected items and photos from each year's issues that we felt gave a broad picture of how the college changed and evolved as a reflection of the changing world around it. We think you'll recognize names and faces who greatly affected the path of engineering education here, and we hope, marvel with us at the advancements in the physical facilities and academic achievements that have come from this remarkable institution. For those wishing to see the issues of the magazine in their entirety, these have been scanned and are available online. To complete the book, we included bios and photos of each dean from 1908 to 2019, followed by names and photos of Hall of Fame members from the inaugural class of 1989 through this year's inductees.

— The staff of Engineering Communications and External Relations

THE IMPACT OF K-STATE ENGINEERING

Table of Contents

8	1965 to 1974 <i>Two new deans begin their terms; first female student is named to Steel Ring membership; formation of a college advisory council is announced.</i>	92	2005 to 2014 <i>Faculty and staff receive three days of diversity training; ground is broken for the new \$40M Phase IV building project; a tornado causes \$20M damage to the campus, including the engineering complex.</i>
28	1975 to 1984 <i>Architectural engineering and construction science programs move from the College of Architecture and Design to the College of Engineering; Durland Hall is dedicated; chemical engineering faculty host five Soviet scientists as part of a U.S.-USSR cooperative.</i>	114	2015 to 2018 <i>Two departments and one center are named by alumni; biomedical engineering is added as an 11th academic program; the Academic Success Center, and Engineering Leadership and Innovation Program are launched.</i>
48	1985 to 1994 <i>Engineering Hall of Fame is established; research annual funding reaches \$8.6M; Gen. Richard Myers is named college's Alumni Fellow.</i>	124	Engineering Deans <i>1908 to 2019</i>
70	1995 to 2004 <i>Fiedler Hall is dedicated; Mary Rezac, chemical engineering, is named as the college's first woman department head; work is nearly complete on "Solution" — K-State's first entry in a solar car competition.</i>	136	Hall of Fame <i>1989 to 2019</i>



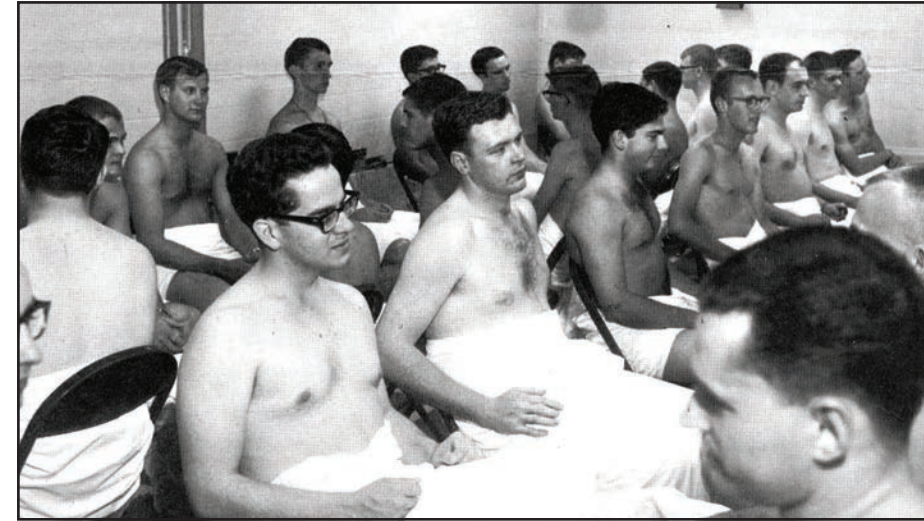
*1965 to 1974**

** 1967 issues unavailable*



Highlights from 1965

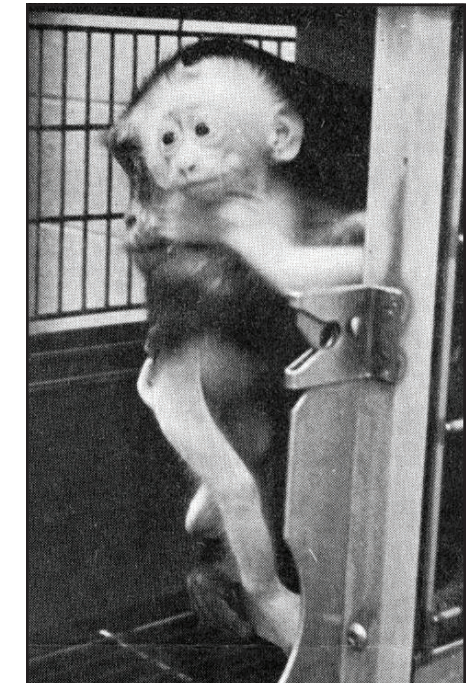
- ◆ Research projects in the Institute for Environmental Research cover a wide range of issues from reaction times, to adverse effects of drafts and crowded quarters, to the relationship between activity and comfort — all looking into our response to our environment.
- ◆ The College of Engineering hired eight new faculty members for the 1965-66 academic year with a combined 80 years of prior experience: John Sutherland, Preston McNall, Patric Spangler, William Monday, Frank Tillman, Wayne Williams, Antonio Aguilar and Louis Grosh.
- ◆ A deactivated Atlas E Missile site two miles north of Wamego was given to the College of Engineering for use as a space engineering laboratory.
- ◆ Eight research grants and contracts, ranging in value from \$350 to \$49,696 and totaling more than \$200,000, were received by the College of Engineering in the first quarter of 1965-66. Funding sources included Stanford Research Institute and Office of Civil Defense, ASHRAE, Air Force Office of Scientific Research, Office of Saline Water and the National Science Foundation.
- ◆ The college hosted two distinguished European visiting professors: Patrick Parks, electrical engineering, University of Southampton in England; and Milan Copic, nuclear engineering, Josef Stefan Institute in Ljubljana, Yugoslavia.



Research in the environmental test chamber at the IER determines physiological aspects of people crowded together in confined spaces. Participants are subjected to high heat and humidity to determine how long before they develop an artificial fever of two degrees.



The General Electric Company's life-size copper manikin, a hollow shell in the shape of a human, is on loan to K-State's IER to determine the insulative value of types of clothing.



Monkeys are tested in a chilly room at the IER to develop a program to eliminate discomfort caused by cold air blasts issuing from auto and home air conditioners.

Highlights from 1966

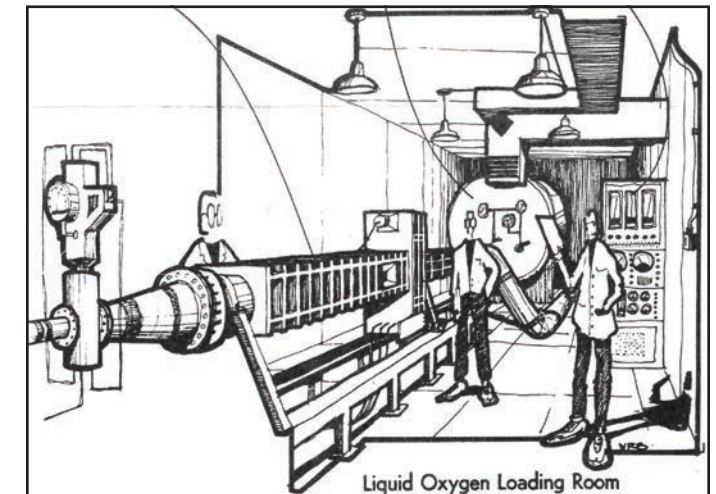
- ◆ Engineers at K-State are now converting missile silos and associated equipment into tools for research and teaching. K-State received the keys to three former Atlas missile sites during formal transfer ceremonies in Manhattan on Sept. 30. The Wamego launch pad site was announced a year ago and is now joined by cylindrical silo sites north of Abilene and a third near Chapman.
- ◆ A giant, 21,000-pound, \$18M missile guidance computer is another acquisition of the College of Engineering, which is being “retrained” by the department of electrical engineering for use in civilian life as a modern “hybrid” computing system.
- ◆ Austrian native, Hermann J. Donnert, a research scientist of international renown, has joined the department of nuclear engineering.
- ◆ Frank A. Tillman was appointed head of the department of industrial engineering on July 1, replacing George Schrader.
- ◆ The annual report of the Engineering Experiment Station, “Research Activities 1966,” is in press and gives a brief description of the purpose and results of each of the 85 active research projects in the College of Engineering in 1966.



Atlas, America's first operational intercontinental ballistic missile, rises from its pod as the top of the shelter rolls back. Engineers at K-State are converting three area missile silos and associated equipment into tools for teaching and research.



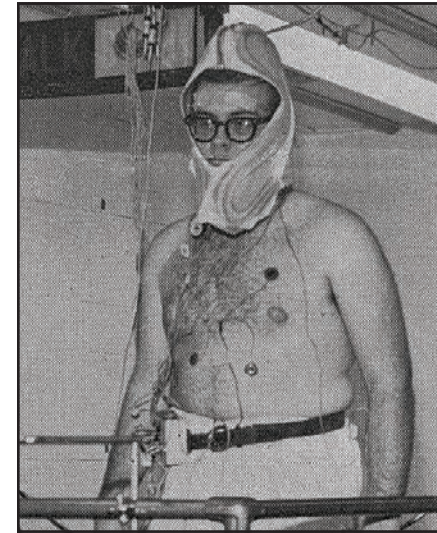
A former missile guidance computer, being retrained for use in “civilian life,” occupies 700 square feet of floor space in the EE department at K-State.



A sketch of the liquid oxygen loading room, a part of a former missile site, will soon be used by the K-State ME department as an aerospace laboratory.

Highlights from 1968

- ◆ Ralph G. Nevins has been selected as the new dean of the College of Engineering and Cecil Best as the new associate dean.
- ◆ Two of 50 grants in a \$19.6M U.S. Department of Defense research effort, Project Themis, have been awarded to the College of Engineering — one to the Institute for Environmental Research and a second for interdisciplinary study in nuclear engineering and solid-state physics.
- ◆ Two new department head positions have been announced for the College of Engineering: L.T. Fan, chemical engineering; and Preston E. McNall, mechanical engineering.
- ◆ Two K-State engineering student chapters, the American Society of Civil Engineers and the American Institute of Industrial Engineers, have been judged best in the nation.
- ◆ Salary offers made to 1967-68 engineering seniors at K-State are averaging higher than ever before at \$760 per month. This is \$46 per month higher than the 1966-67 average, and \$94 per month higher than offers made to 1965-66 graduates.



K-State IER personnel, under a DOD Themis contract for study of altered environments, have found a water-cooled hood to be effective in reducing physiological strain during exposure to high temperatures.



The AGE department has a colorful new mosaic gracing its main hallway. G. Alden Krider, right, and his class put together 12,500 pieces of glass into the 7.5-foot-square partial abstract mosaic. The design captures the application of engineering in agriculture according to George Larson, left, professor and department head. John Meyer, center, architecture student, was the designer.

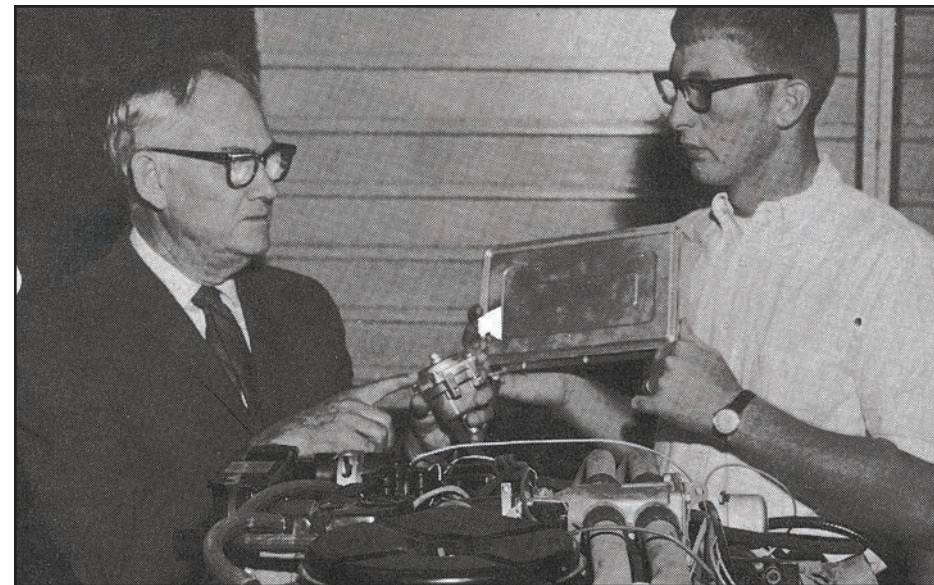


Nuclear engineering faculty are conducting tests of simulated nuclear fallout under a \$99,567 research contract for the DOD on a "typical American house." The house is part of K-State's million-dollar 180-acre test site five miles west of campus.

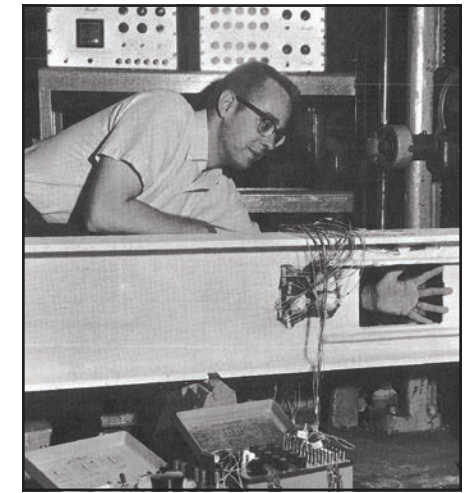
KANSAS STATE
ENGINEERING **IMPACT**
 NEWSLETTER

Highlights from 1969

- ◆ Curtis Chezem, a branch chief for the U.S. Atomic Energy Commission in Washington, D.C., has been named head of nuclear engineering at K-State. He will assume the duties from acting head, Richard Faw.
- ◆ Dwight A. Nesmith, K-State mechanical engineering professor, has been named director of the Engineering Experiment Station. He had been the assistant director since 1961 and succeeds Leland Hobson.
- ◆ The College of Engineering has opened a Center for Effective Teaching, partially funded by a gift from an anonymous alumni donor. The center director will be Paul L. Miller Jr.
- ◆ Leading investigators from Australia, England, France and the U.S. took part in a symposium at K-State that focused on problems encountered when dealing with individual crewman cooling.
- ◆ Subscriptions can be purchased for the quarterly student engineers' magazine, K-State Engineer, featuring news articles, a message from the dean and pictorial features on pretty coed Engin-Dears.
- ◆ Daric Miller, electric production manager at Kansas Light and Power Company, Topeka, has been elected as chair of the College of Engineering Advisory Council.



Alley Duncan, left, K-State ME professor, shows Bruce L. Wilson, senior from Abilene, Kansas, a Volkswagen engine's computerized fuel-injection system. This \$850 engine, controlled by integrated computer circuits, was donated to the department of mechanical engineering through the Manhattan VW dealer.



Peter Cooper, CE associate professor, works on a research project calling for investigation of reinforcement requirements around openings in webs of rolled-steel beams. This 12-month, \$14,255 research contract is funded by the American Iron and Steel Institute.



One of these K-State coeds will be selected the 1969 St. Patricia and reign over the 45th annual Engineering Open House March 14-15. Finalists, from left, are Judy Jakowatz, junior, Wichita; Judy Macy, junior, Manhattan; and Rebecca Campbell, sophomore, also from Manhattan.

KANSAS STATE

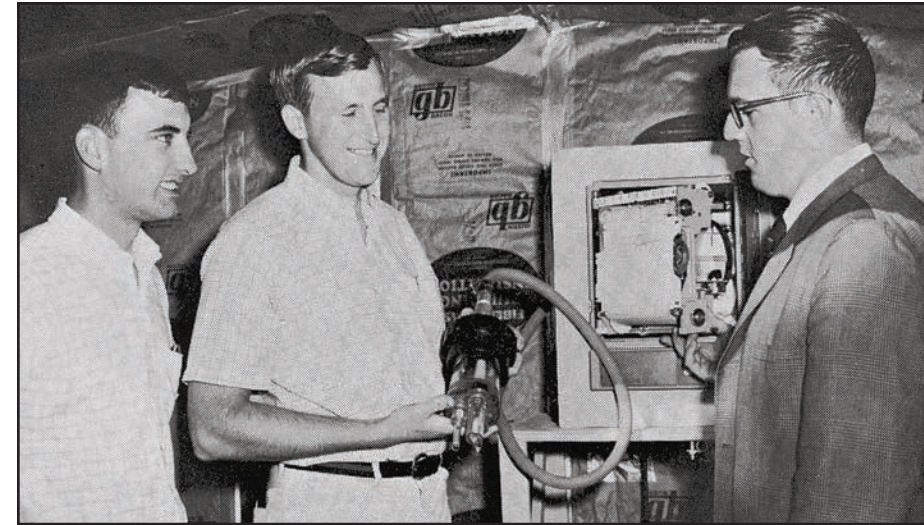
ENGINEERING

NEWSLETTER

IMPACT

Highlights from 1970

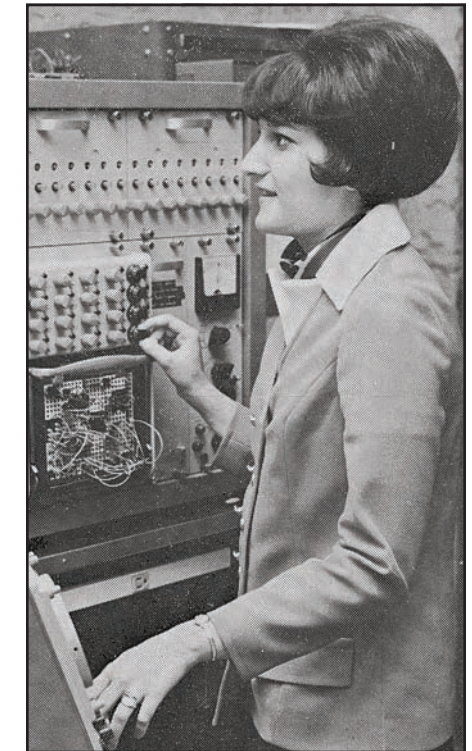
- ◆ A new Institute for Computational Research in Engineering — to provide development and service for computer-oriented activities with emphasis on small computers — has been approved for K-State engineering by the Kansas Board of Regents. John Mingle, nuclear engineering professor, will serve as director.
- ◆ An agricultural engineering design class has developed a model harvester attachment, which, if perfected, could add \$180M a year to the income of the nation's soybean producers.
- ◆ Paul van Wely, visiting professor in industrial engineering, is a member of an ergonomics group based in Holland studying why women should do ironing sitting instead of standing to avoid musculoskeletal pain.
- ◆ Roy Andrew Seaton, 86, dean emeritus of K-State engineering, died May 23. He was dean from 1920 to 1949, first joining the K-State faculty in 1904 as an assistant in mathematics.
- ◆ Fundraising for an addition to Ward Hall remains \$90,000 short of the necessary \$750,000 needed for the 13,000-square-foot addition. Other contributions to the project include a state legislative appropriation of \$100,000 and a National Science Foundation matching grant of \$375,000.



Lawrence Schmid, right, CE assistant professor, is testing his lime-biological treatment phosphorous removal process at the Manhattan sewage treatment plant. Assisting him are Ron Graybeal, left, Topeka, and John Bailey, Leon.



Two retired K-State engineering professors, D.C. Taylor and O.D. Hunt, show "Purple Pride" in the university's athletic program, decked out in purple blazers, caps and ties at each home football and basketball game. The two represent a combined total of 86 years of teaching.



Computers and oscilloscopes are completely foreign instruments to most K-State coeds, but not to sophomore Laree Mugler, Clay Center, often the only girl in her male-dominated engineering classes.

Highlights from 1971

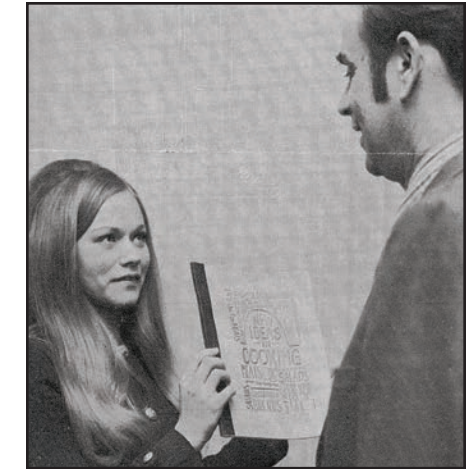
- ◆ Becky Smith, Ozawkie, Kansas, was crowned St. Patricia, and Charles Stryker, Blue Rapids, Kansas, was crowned St. Patrick at the 1971 Engineering Open House.
- ◆ As of Aug. 16, 1971, the incoming freshman class in engineering at K-State was projected at 280 compared with a total of 335 in fall of 1970, an anticipated decrease in enrollment of 16.5 percent.
- ◆ Two veteran engineering educators — John Clifton, industrial engineering, age 70; and Alva Messenheimer, electrical engineering, age 68, have retired from the K-State engineering faculty. Both are associate professors and K-State alumni.
- ◆ Laree Mugler, junior in mechanical engineering, Clay Center, Kansas, has become the first female named to Steel Ring membership in the history of K-State engineering.
- ◆ The College of Engineering has established two fundraising clubs to provide financial support for the college to do things not fundable by state appropriations. The Dean's Club calls for alumni and friend members to give or pledge not less than \$500 to be paid in not more than five years. The Dollar-Per-Year-Squared Club calls for alumni members to give annually \$1 for each year since graduation from K-State: for example, a 1970 graduate would give \$1 and a 1960 graduate, \$11.



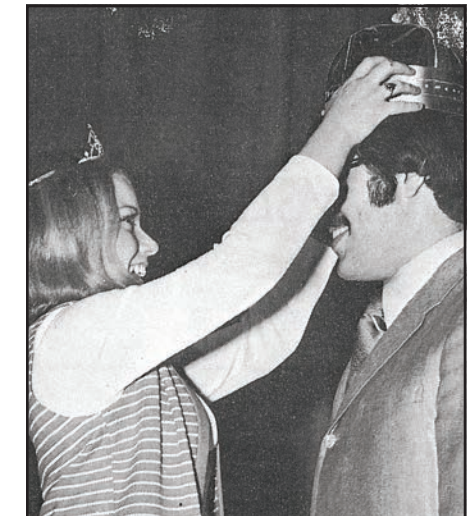
Construction on the Ward Hall addition, valued at nearly \$1 million, continues "right on schedule," slated for occupancy next fall.



Women, once a rarity in engineering at K-State, are now enrolling in greater numbers than ever before. Curtis Chezem, head of nuclear engineering and an advocate of educating more women engineers, talks with four freshman coeds about his department's curriculum.



The K-State Engin-Dears, a coed auxiliary of the College of Engineering, compiled and published a cookbook featuring desserts, salads, breads and punch mixes. Dean Ralph Nevins purchased the first copy from Engin-Dear, Susan Falk, Topeka.



Becky Smith, St. Patricia, and Charles Stryker, St. Patrick, reign over 1971 Engineering Open House.

Highlights from 1972

- ◆ Two new student groups have been formed in the College of Engineering: the Society of Women Engineers; and Tau Beta Gamma, a college-wide engineering honorary. Faculty advisers are Doris Grosh, assistant professor of industrial engineering; and Curtis Chezem, professor and head of nuclear engineering, respectively.
- ◆ Four seniors — Alan Johnson, agricultural engineering; David Kuckelman, chemical engineering; Dale Ellis, mechanical engineering; and Mike Pacey, electrical engineering — are the first recipients of the college-wide designation, Knights of St. Patrick.
- ◆ Dean Ralph Nevins announced that alumni contributions to the college, between Jan. 26 and May 17, have increased from \$20,917 to \$38,155 for the year, with an additional \$13,564 in pledges.
- ◆ Two new department heads are announced: Richard Faw, professor, nuclear engineering; and Robert Snell, professor, civil engineering.
- ◆ Ken Gowdy, assistant dean of engineering, noted the following: “Employment projections for the next decade suggest that two of the traditional areas for women, teaching and social work, will be flooded with graduates. Thus, we believe that a young woman with an interest in science and mathematics should give serious thought to the possibility of a career in engineering.”



Some 200 persons attended the dedication of the addition to Ward Hall on Nov. 4. An honored guest, U.S. Rep. Wayne Aspinall, waves to the crowd.



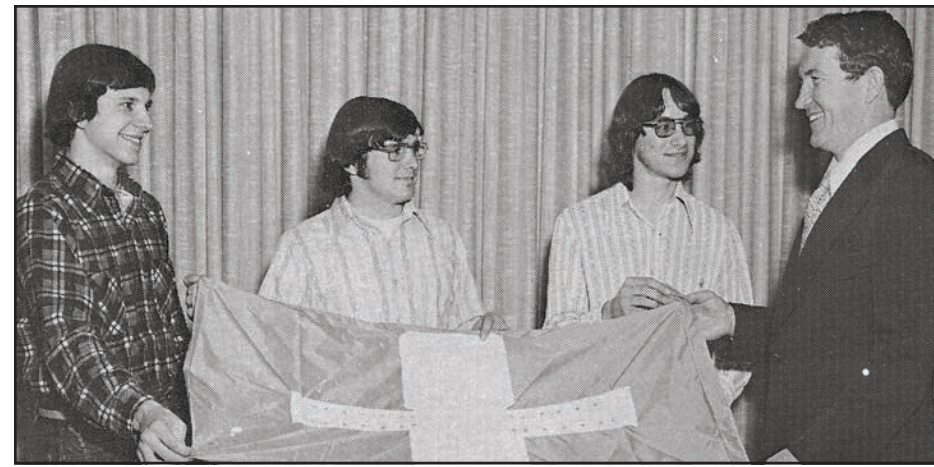
The 30-member pledge class of Sigma Tau engineering honorary whitewashed the K-Hill landmark in Manhattan Oct. 15, the day after the Wildcats beat KU 20-19 in football. The whitewashing tradition event dates back 40 years. The job required 30 bags of white Portland cement, 30 bags of lime and 400 gallons of water.



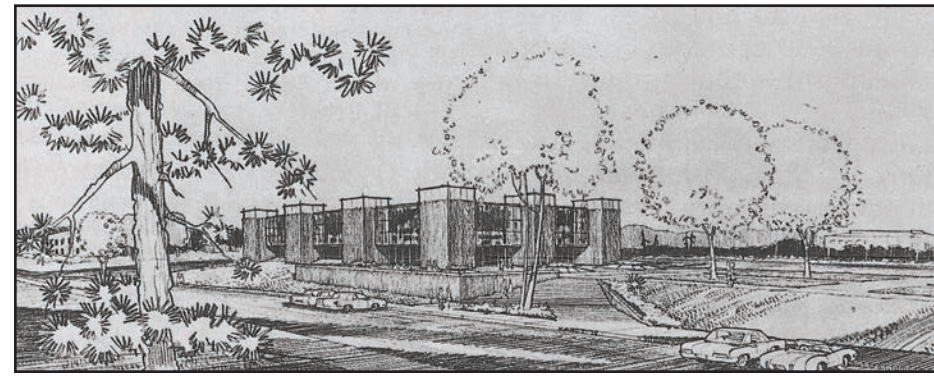
The K-State Urban Car finished 24th in a field of 80 at the international Urban Vehicle Design Competition Aug. 7-11 in Detroit. K-State rated high with its safety bumper and in fuel economy, ranking as the most economical LP (liquefied petroleum) gas-fueled vehicle in the competition.

Highlights from 1973

- ◆ Donald E. Rathbone, 44, former chairman of the department of electrical engineering at the University of Idaho-Moscow, has accepted the position of dean of engineering at K-State.
- ◆ College of Engineering research funding was assured for the third consecutive year at a level in excess of \$1 million annually.
- ◆ Whirlpool Corporation has contracted with the department of mechanical engineering for the patent rights to the design of a demand defrost system that will permit refrigerators to defrost on a schedule keyed to the amount of frost build-up. The design is the result of a student team project directed by John Lindholm, F. C. Appl and Ralph Turnquist.
- ◆ The department of chemical engineering has received a \$10,000 contribution through the charitable trust fund of Koch Industries, a Wichita chemical engineering process equipment and construction firm.
- ◆ Dean Donald Rathbone announced on Nov. 29 that he was pledging the technical expertise of K-State engineering educators and researchers to help Kansas meet the energy crisis.



A "tent-backpack" designed by engineering majors, from left, Andy Glatt, Salina; Walter Endecott, Drexel, Missouri; and Mark Alft, Lindsborg, was judged best in a student competition at K-State conducted by Kenneth Gowdy, right, ME associate professor and assistant engineering dean at K-State.



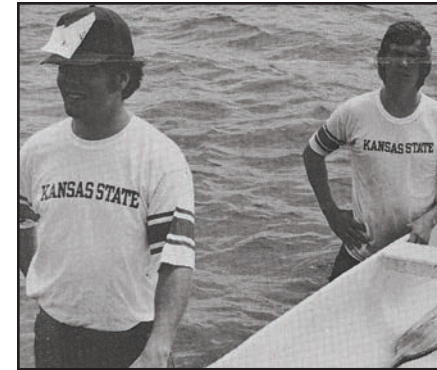
The Kansas State Legislature has appropriated \$2.5 million to build the new M.A. Durland Hall, housing the departments of chemical and industrial engineering. Named for the college's dean emeritus who served from 1949 to 1961, it will be built at the intersection of Denison Avenue and College Heights, north of Ahearn Fieldhouse.



Donald Lenbert, EE associate professor, tries to detect areas of wheat disease using an Earth Resources Technology Satellite photograph and a computer gray-scale map.

Highlights from 1974

- ◆ Construction has begun on a new \$2,851,000 chemical and industrial engineering building to be named in honor of M.A. Durland, dean emeritus of K-State engineering. The building will be erected on the football practice field just west of Seaton Hall.
- ◆ A new awards and scholarship program is being implemented this year where the outstanding high school senior in math and science, at each school in the state, will be recognized by the College of Engineering with a bound certificate and then become a candidate for a \$300 scholarship.
- ◆ Dean Rathbone has expanded the K-State Engineering Advisory Council, a group of public-minded citizens, prominent in engineering and industry, organized for advising and aiding the college. W. LeRoy Culbertson, Bartlesville, Oklahoma, mechanical engineering 1939, is the council chair.
- ◆ Two “quotable” items:
 - “Helena Vergara Nolan — this attractive December 1973 graduate of K-State is now working for Wilcox Electric, Kansas City, Missouri. Mrs. Nolan completed her M.S. in electrical engineering and turned down job offers from firms in Indiana and Nebraska.”
 - “John Mein, senior in electrical engineering, Walnut, Kansas, is the newly elected president of the Engineering Student Council. He has few if any lazy bones in his body. Typical of Mein’s high-tempo involvement last year at K-State was a model windmill dramatizing the use of hydrogen for future farm energy needs.”



K-State's Chi Epsilon civil engineering honorary members edged out their counterparts from Iowa State for third place in the first K-State Invitational Concrete Canoe Race. K-State's "Portland Queen" also competed with entries from MU-Columbia, MU-Rolla and Nebraska.



Dean emeritus M.A. Durland, who headed the College of Engineering and Architecture, 1949-61, turned the first shovel of dirt during April 29 Durland Hall groundbreaking ceremonies held in a heavy downpour. Some 150 persons — including his two daughters from California, Audrey Emmons and Mary Lee Kind — braved the rains for the ceremony.



Severe weather within a 100-mile radius of Manhattan will soon be detected on the screen of this radar set designed in the early 1950s for forward surveillance on a Boeing 852. Donald Hummels makes minor repairs on the radar set and recently obtained an FCC license for its operation.



Five coeds received their B.S. degrees and have done well in the job market and acceptance to graduate school. Doris Grosh, left, IE professor, served as a faculty adviser to the K-State student chapter, Society of Women Engineers. Coeds, from left: Karen Hoefgen, CHE; Marla Sheets, NE; Kathleen Carley Parrish, NE; Aida Pertsch, EE; and Vicki Swisher, NE.

*1975 to 1984**

**1978 issues unavailable*



Highlights from 1975

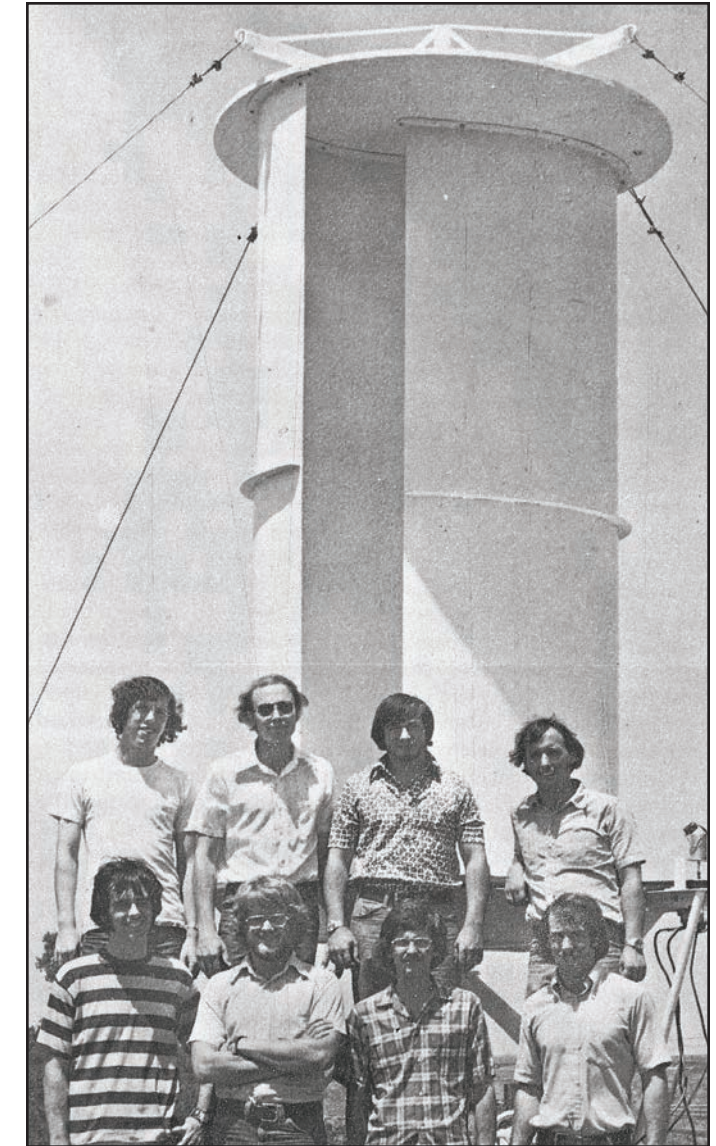
- ◆ On July 1, the College of Engineering began offering a five-year B.S. program in architectural engineering and a four-year B.S. program in construction science. They replace the degree programs of architectural structures and building construction previously offered through the College of Architecture and Design at K-State.
- ◆ Hermann Donnert, nuclear engineering, and Doris Grosh, industrial engineering, will share the 1974-75 \$500 award from the Engineering Center for Effective Teaching for excellence in undergraduate teaching.
- ◆ Phillips Petroleum Company, Bartlesville, Oklahoma, was named the Company of the Year by the Tau Beta Pi student engineering honor society. Bill Martin, CEO and chairman of the board of Phillips, accepted the award at ceremonies Feb. 28.
- ◆ A 1932 electrical engineering graduate, Walter R. Mitchell, Dallas, Texas, has funded an award and scholarship program for outstanding sophomores in pre-engineering in the 19 Kansas community colleges and at K-State. Recipients will become known as Mitchell Scholars and become part of a select group of outstanding K-State engineering students.
- ◆ Forty-two area Boy Scouts and Explorers completed the Atomic Energy Merit Badge following instruction from members of the student chapter of the K-State American Nuclear Society.



Construction nears completion on Durland Hall, soon to be the home of the K-State departments of chemical and industrial engineering.



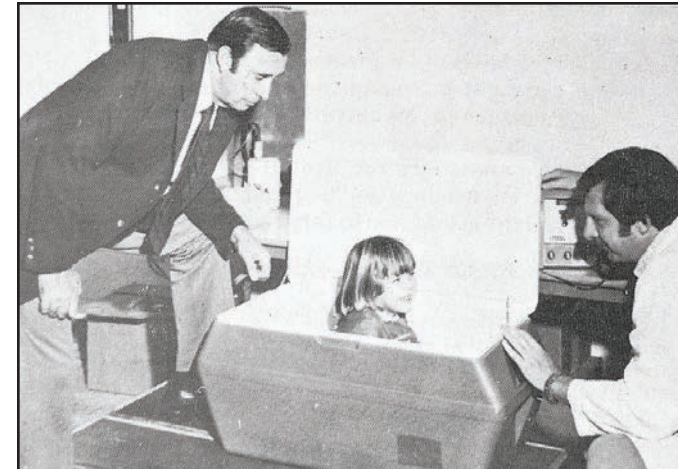
A display of early farm implements and other tools fabricated in the K-State forge shop in the early 1900s were donated to the Ag Hall of Fame in Bonner Springs. Thought to be one of the largest such displays of early 20th century tools forged in Kansas, the K-State exhibit will be a part of the Ag Hall blacksmithing materials. K-State President Duane Acker, left, and Frank Tillman, right, head of the IE department, made the formal presentation.



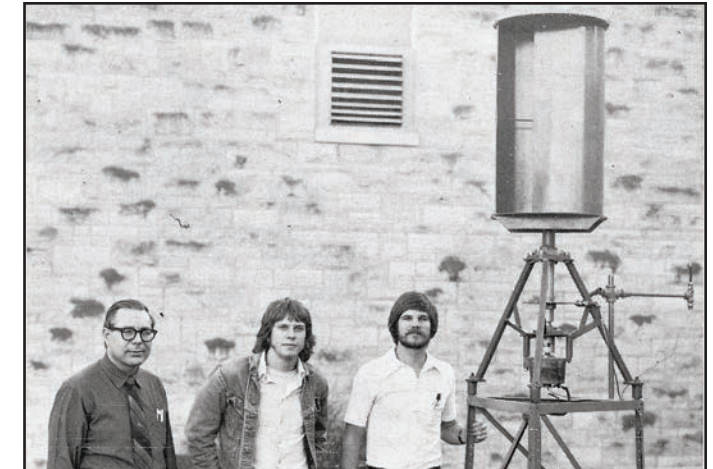
Seven K-State undergraduate engineering students and one graduate student developed a Savonius-type windmill rotor as part of an 11-week National Science Foundation project on the design of a hydrogen fuel system for Kansas farm needs.

Highlights from 1976

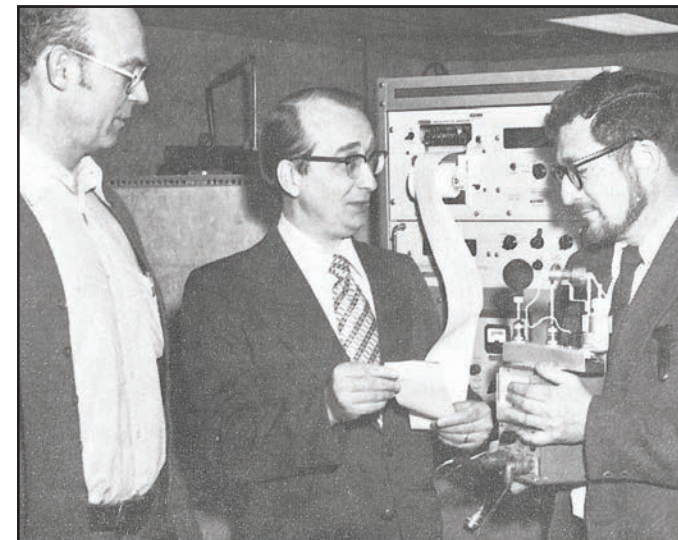
- ◆ A highlight of the 1976 Engineering Open House was the dedication of Durland Hall, the new \$2.85 million home of the departments of chemical and industrial engineering.
- ◆ The Kansas Board of Regents has approved a new “undesignated doctoral degree” in engineering at K-State. The move was in response to helping students who feel constrained by their choices within department divisions.
- ◆ A double major in industrial and mechanical engineering brought December K-State graduate Brenda Klenke, Spearville, Kansas, a \$15,600 starting salary with John Deere and Company, Moline, Illinois.
- ◆ Undergraduate course offerings in food engineering technology — one of seven areas of specialization leading to a B.S. degree in engineering technology at K-State — will be strengthened by a \$36,800 National Science Foundation grant to buy needed equipment for related courses taught in the departments of chemical and agricultural engineering.
- ◆ Earning \$10,000 to \$16,000 while going through college, and getting up to 18 months of valuable professional experience, are two of the benefits for the 40 students taking part in the K-State engineering cooperative work-study program.



Fred Robles, left, IER, and Bill Zuti, right, completed a study of ice chest safety that could help diminish the number of suffocation deaths of small children.



Two ME students, with guidance from Professor Fredric C. Appl, left, built and tested a wind-powered electrical generator.



Herbert Ball, center, and Robert Gorton, left, evaluate various heat-stress meters used to determine the effect of heat on on-duty Navy crew members.



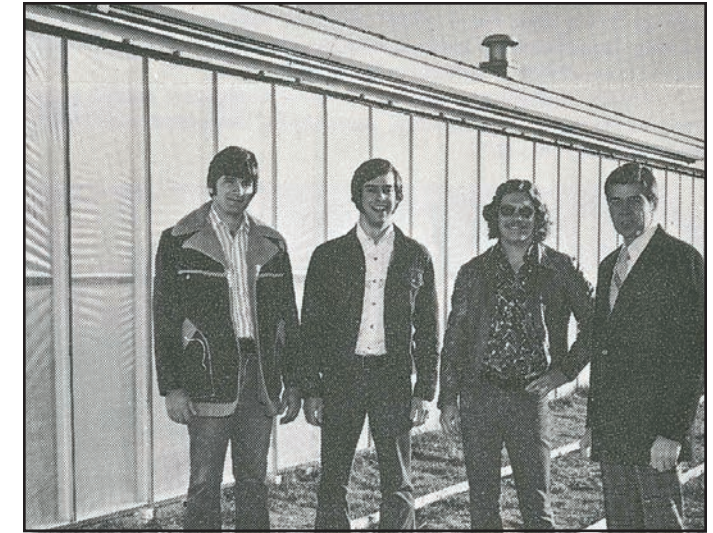
Kansas City area high school graduates take part in a summer tutoring institute for minority students intending to enroll at K-State.

Highlights from 1977

- ◆ A team of engineering students, who developed an alternate system for providing electrical energy for a Kansas farm home, won the grand prize for the 1977 Student Competition on Relevant Engineering, or SCORE. Their entry, an engine powered by ethanol produced from Kansas grain sorghum, won against 56 other entries at the national event in Richland, Washington.
- ◆ Supported by a \$50,000 National Science Foundation grant, Cecil Best and Dominic Huang, civil engineering, have begun a study to see if it is feasible to prevent serious cracking in concrete by artificially reducing the amount of moisture in it.
- ◆ N. Dean Eckhoff has been appointed department head of nuclear engineering, succeeding Richard Faw.
- ◆ The Kansas Board of Regents has approved departmental status for the engineering technology program in the College of Engineering, currently the fastest growing area of study at K-State.
- ◆ Five scientists from the Soviet Union visited K-State in January as part of a research program being carried out by a U.S.-USSR joint scientific and technological cooperative effort. Engineering faculty hosting the group were Larry Erickson and L.T. Fan, chemical engineering.



Kansas Governor Robert F. Bennett proclaimed March 27-April 2 as Engineering Open House Week. Steel Ring members called on the governor to sign the proclamation.



K-State agricultural engineers are studying the warming of enclosed hog shelters in winter with solar heating units.



Duane Acker, left, president of K-State, helped dedicate the new William C. Exline Student Center in the College of Engineering in October. Mr. and Mrs. Exline together snipped the ribbon, officially opening the center in Seaton Hall.



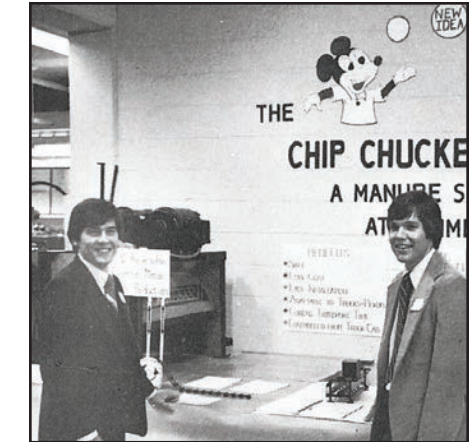
K-State engineering graduates took part in a panel during the third annual career conference conducted by the student chapter of the Society of Women Engineers.

Highlights from 1979

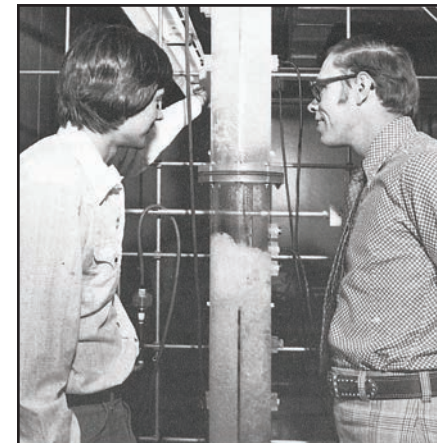
- ◆ Jon Held, mechanical engineering graduate student, is working in the USDA Grain Marketing Research Laboratory in Manhattan to develop an instrument that will allow measurements of dust concentrations when conducting laboratory explosion experiments.
- ◆ Harry Knostman and Jerry Zovne, civil engineering faculty, racing the “Paddlestar Wildcatca,” lost to the KU faculty in the sixth annual concrete canoe race. K-State’s women engineering students won in the women’s category and the team from civil engineering won best constructed canoe for the second year.
- ◆ U.S. Senator Nancy Landon Kassebaum was a guest of the college to cut the ribbon to officially open Engineering Open House activities.
- ◆ Robert E. Dahl was named new department head for architectural engineering and construction science.
- ◆ Dean Donald Rathbone has announced an “Achilles heel” for the college — a lack of graduate students. With industry’s needs so great and competitive salaries, B.S. graduates are choosing the workforce rather than going on to graduate school.



ARE students did some clowning during the open house parade. Leading the parade are two seniors, Larry Kempke, left, and Mark Owens.



Two AGE seniors, left, Brady Bauer, and Patrick Parke, received the Outstanding Individual Display award for their “Chip Chucker” during the 55th annual Engineering Open House.



Mark Orazem, left, and Larry Erickson, conduct research on the oxygen transfer rates and efficiencies in airlift towers used by the fermentation industry to produce such products as baker’s yeast, simple-cell proteins and pharmaceuticals.



A K-State engineering team entered an energy-efficient vehicle in the Student Competition on Relevant Engineering with a Fiat 850 cc engine they modified to work more efficiently.

Highlights from 1980

- ◆ A new energy conservation program at K-State — Energy Extension Service — will be under the direction of Richard Hayter, former assistant professor of mechanical engineering. The program will operate through the K-State Cooperative Extension Service and the College of Engineering.
- ◆ John B. Slaughter, a 1956 graduate in electrical engineering, has been nominated to become director of the National Science Foundation.
- ◆ In June, nearly 60 Kansas high school students attended the college's annual Engineering and Science Summer Institute on campus to explore careers in engineering and science.
- ◆ Engineering students manned telephones and brought in \$52,571 in pledges during the annual Telefund campaign conducted by the Kansas State University Foundation.
- ◆ Two professional student organizations were hosted on the K-State campus in April — the National Organization of Student Chapters of the Associated General Contractors of America and the American Nuclear Society Student Conference, with 55 and 135 in attendance, respectively.



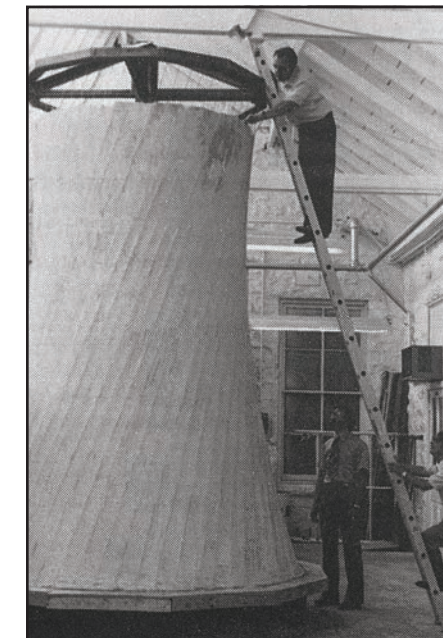
Mark Boguski, right, AGE senior, explains the "Handy Hooker" to Open House visitors.



Working with others was the focus of the first College of Engineering Leadership Institute. Seated from left are Lisa Hoffmaster, Terry Strickland and Mark Hutchison. Looking on is Pat Bosco, assistant dean for student development, who conducted the workshops.



President Duane Acker donned novelty sunglasses and hat for the ribbon cutting which officially began Open House activities.



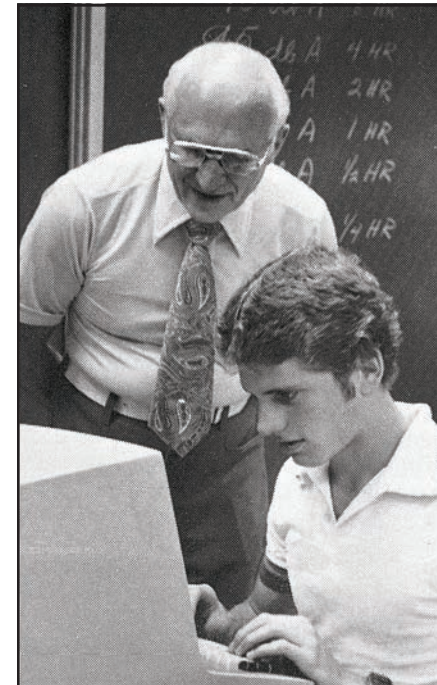
Stuart Swartz, CE professor, inspects the workmanship on a model of a concrete cooling tower being built to test buckling behavior of concrete under high winds. The model is based on a 600-foot tower, compared with 300-foot towers now in use in power plants.

Highlights from 1981

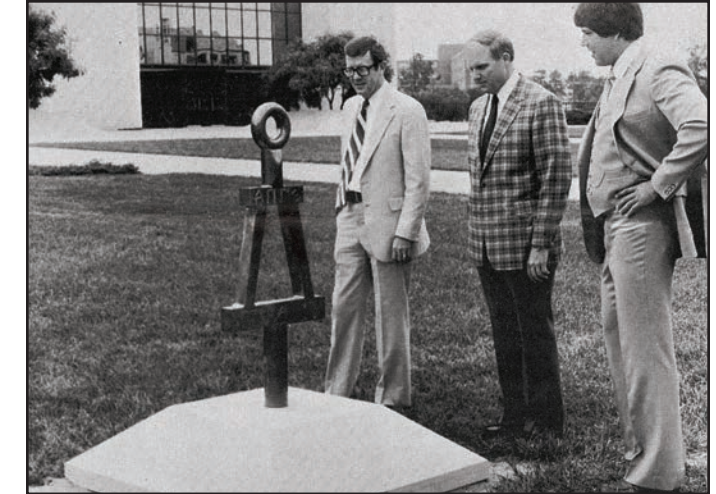
- ◆ Groundbreaking ceremonies were held May 13 for Phase II of the Durland Hall Engineering Complex. The three-story, 106,000-square-foot extension of the Phase I building will house the departments of electrical and mechanical engineering, offices of the dean, classrooms and a computer lab.
- ◆ Mark Schrock, assistant professor of agricultural engineering, was named Young Engineer of the Year by the mid-central region of the American Society of Agricultural Engineers.
- ◆ The class of 1981 has purchased a limestone base for the Bent, the official symbol of Tau Beta Pi and a gift from the class of 1976, with both pieces now a part of the permanent outdoor landscaping of Durland Hall.
- ◆ The College of Engineering has received the 1981 Koerper Award from the National Society of Professional Engineers, which includes a \$1,000 stipend to be used to purchase works of art.
- ◆ A team of students from agricultural engineering, for the fifth year in a row, have brought home first prize in the national Allis-Chalmers Student Design Contest. Their winning entry, a tractor hitching device, is called the "Handy Hooker."



The "Dynamic Duo" roller skates along the parade route during Open House ceremonies.



High school students from around the state got a lesson in computers from Jacob Smaltz, left, IE professor, during the Engineering and Science Summer Institute. In the week-long program, students also explored such topics as lasers, solar energy, engineering job functions and the water crisis.



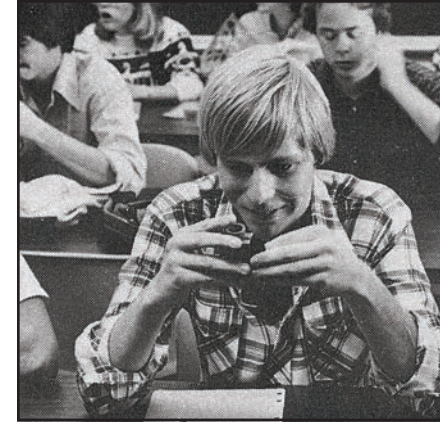
A Bent, the official symbol of Tau Beta Pi, has become a permanent part of the landscape of Durland Hall. Admiring the monument, from left, are Dean Donald Rathbone, Frank Tillman and Mike McGeough, Tau Beta Pi president.



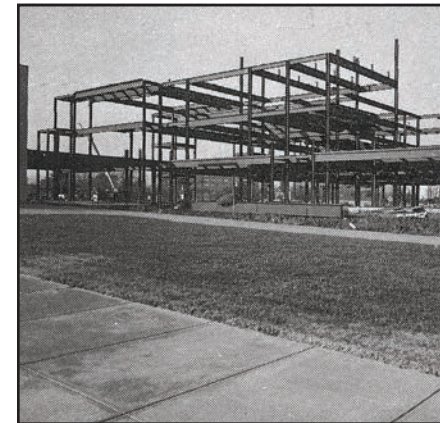
Dean Donald Rathbone turns the first shovelful of earth marking Durland Hall, Phase II ready for construction.

Highlights from 1982

- ◆ Dean Emeritus M.A. (Cotton) Durland, for whom the new engineering complex is named, died Jan. 3 at the age of 84.
- ◆ The architectural engineering program at K-State is one of only nine such programs in the United States that is accredited.
- ◆ The increasing number of women and minority students in the College of Engineering has led to the establishment of a permanent position of director of Women's and Minorities' Programs. Karen Hummel has been chosen to fill the slot.
- ◆ The College of Engineering is one of 13 engineering schools in the nation selected to participate in the Caterpillar Tractor Company Scholars Program for 1982-83, which combines scholarship assistance, summer internships at Caterpillar and a grant to participating students' departments.
- ◆ Five new faculty members joined the college this fall: Mark Malone and Michael Mayo, architectural engineering and construction science; Jonas Amoapin and Margaret Yaeger, engineering technology; and Muthuraj Vaithianathan, industrial engineering.



David Stauffer, freshman, thinks he has figured out the mechanism of a device in Dwight Nesmith's Engineering Concepts class. Instead of building models from scratch, students are learning engineering principles by taking objects apart and putting them back together again.



Durland Hall, Phase II, a three-story structure, will be connected to the north end of Durland Hall, Phase I, by a lobby.



Wendell Newell, left, and Donald Chesnut reminisce about student days at K-State while looking over photos of their graduating classes.



Michael Lucas, seated, EE professor, demonstrates one of his research projects for visitors touring College of Engineering facilities.

Highlights from 1983

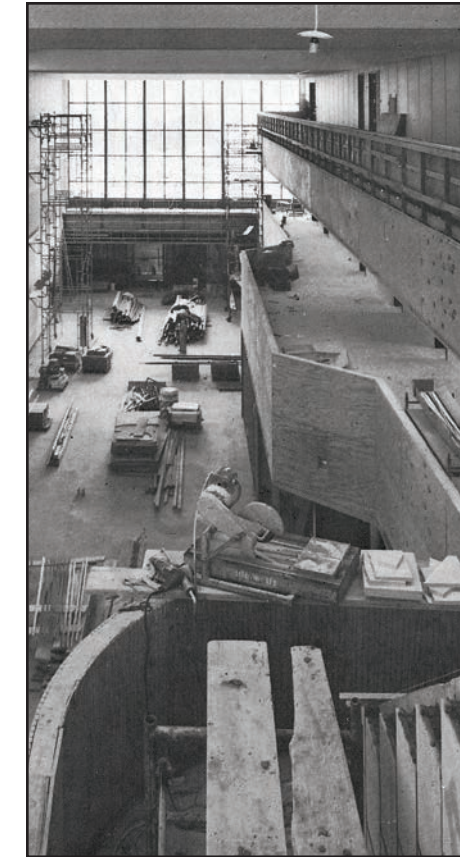
- ◆ The 180-seat lecture hall in Durland Hall, Phase II will be named after LeRoy C. Paslay, K-State graduate, and renowned engineer and inventor. Paslay donated \$100,000 to help equip the new engineering building.
- ◆ The department of chemical engineering has been ranked among the top 10 in the nation by the Conference Board of Associate Research Councils for the number of publications by faculty members.
- ◆ The manufacturing option in the department of industrial engineering, the only program of its kind in Kansas, continues to attract increasing numbers of students who are being prepared to handle the technological onslaught of computers in the manufacturing of goods.
- ◆ K-State engineering graduates, Wendell Lady and Norman Brandeberry, have been named to serve on the Kansas Board of Regents.
- ◆ Two professors from chemical engineering have been issued patents: L.T. Fan for a wastewater treatment method and Benjamin Kyle for a process to manufacture gasohol.



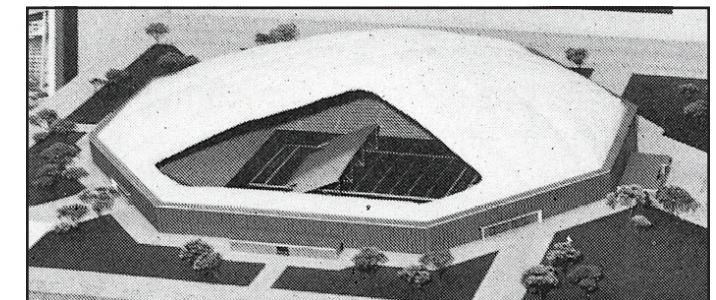
The K-State Office of Security and Traffic now has an electric car, thanks to engineering students. The car was given to the College of Engineering by Kansas Power & Light Co. in 1976, used in research for a period, then stored. Students gutted, cleaned and painted the vehicle, and redesigned it to suit the purposes of campus traffic personnel.



A solar tracking device built by ME students was a winner in the Best Display award category of Open House. The device consisted of a solar collector that moves with the light source.



Construction continues on the main lobby area of Durland Hall, Phase II. Balconies open onto the lobby from each of the upper stories, adding a pleasant airiness. A student study lounge will overlook the lobby from the south end of the building. Aesthetic appeal will be heightened with decorative stonework on stairwells and bright colors on walls.



CNSM students won Outstanding Display at Open House for their design of an air-supported roof for the K-State football stadium.

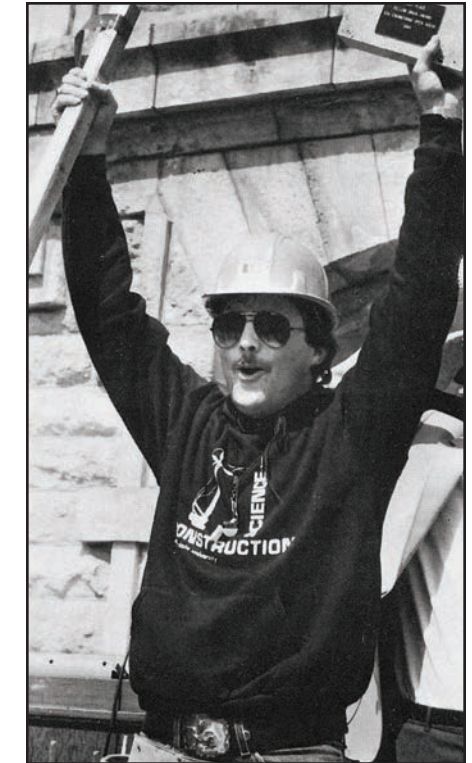


Highlights from 1984

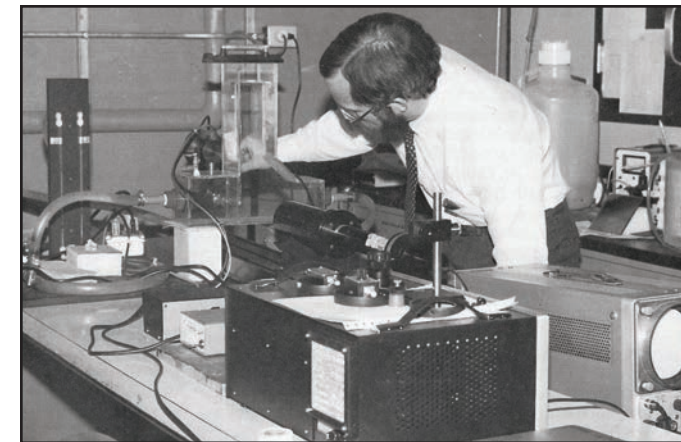
- ◆ College of Engineering alumni and friends have more than met the challenge to provide \$1 million in funding for equipment for Durland Hall, Phase II.
- ◆ Laree Mugler, 1972 graduate in mechanical engineering, is the first woman to become a Procter & Gamble plant manager. She now heads the Lima, Ohio, facility.
- ◆ Legacy: Engineering at Kansas State University, written by Cheryl May, has been released by the college, tracing engineering education from 1862, the year of the Morrill Land Grant Act, through 1962. Publication of the book coincided with the dedication of Durland Hall, Phase II, as the history ends on the date of retirement of M.A. "Cotton" Durland, for whom the building is named.
- ◆ Dean Donald Rathbone, planning to purchase plants for the balcony and lounge areas in the lobby of the new Durland Hall, Phase II, had estimated spending up to \$1,000. When the low bid came in at \$13,000 and the high at \$42,000, he decided instead to suggest the funding would better come from donors.
- ◆ Eight new faculty members joined the college in the fall: electrical engineering – husband and wife team Stephen and Ruth Dyer, Anil Pahwa and Andrew Rys; agricultural engineering – Steven Eckhoff; architectural engineering and construction science – Bruce Corbin; chemical engineering – John Schlup; and civil engineering – Bruce McEnroe.



Ruth and Stephen Dyer have been dubbed the "new husband-and-wife team" in the EE department. Christopher, one, and Justin, three, have become part of the Dyer team.



CNSM students win top department and display awards, as well as the Yellow Brick Award for most enthusiastic participation in the parade, during Open House.



Larry Glasgow, CHE, uses a Laser-Doppler velocimeter to study effects of the physicochemical environment on particle-size distribution in coagulation.



The 175-seat Paslay Lecture Hall is electronically equipped for transmission of program material to and from remote locations.

1985 to 1994



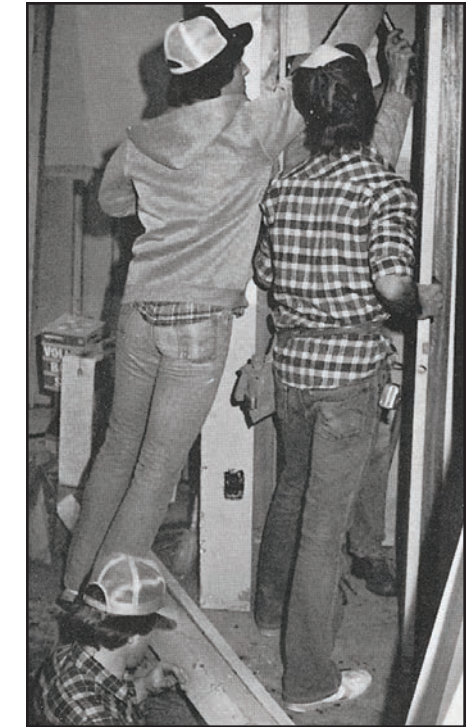


Highlights from 1985

- ◆ A student team of K-Staters, including four from the College of Engineering, has been selected as one of four university teams nationwide to design a pair of astronaut gloves in a project sponsored by NASA.
- ◆ The department of electrical engineering at K-State has been renamed as the department of electrical and computer engineering. The department is the largest on the campus with an enrollment of more than 700.
- ◆ Durland Hall, Phase II, the new engineering building, has been recognized by the Kansas Society of Architects for excellence in design.
- ◆ Preserving groundwater and maintaining drinking water quality are high-priority items on the research agenda for the new Office of Hazardous Waste Research in the College of Engineering. William H. Johnson is director.
- ◆ For the fourth year in a row, the K-State student chapter of the Associated General Contractors has been named the top chapter in the nation. Merrill Blackman is faculty adviser.



A space suit, along with other equipment from NASA, got a considerable amount of attention at Open House.



CNSM students work on a three-room home addition as a project for their chapter of Associated General Contractors.



This design turned out to be a winner for CE students in the annual concrete canoe race. K-State won the traveling trophy for the most overall points and also took first place honors for best construction.



Dean Donald Rathbone, center, poses with students at the 1985 Open House.



Highlights from 1986

- ◆ LeRoy C. Paslay, K-State engineering graduate and philanthropist, has established an endowment for supplementing the chair of the current dean, Donald Rathbone. It will also supplement the chair of the future deans of engineering at K-State.
- ◆ Two gifts of equipment have been awarded the college: from Control Data, two industrial robots and a pallet assembly system that allows for a continuous assembly line operation, valued at \$500,000; and from Hewlett-Packard, nine PC-compatible Vectra microcomputers, two HP 9836 Colorgraphics computers with a shared research monitor, a plotter, graphics tablets for entering data on a screen and a printer, all valued at \$150,000.
- ◆ Callers from the College of Engineering set two all-time records during the spring Telefund — dollars pledged, \$80,291.50, and number of pledges received, 2,292.
- ◆ Changing Times magazine has listed K-State as one of the nation's 50 best educational bargains in terms of academic quality and overall cost. But the cost of a college education is rising dramatically — up more than 30 percent at K-State since 1981.
- ◆ Rodney Fox, chemical engineering graduate student from Wichita, won a NATO Postdoctoral Fellowship in Science. He will use the accompanying \$20,000 stipend for a year of study at the National Center for Scientific Research in Nancy, France.



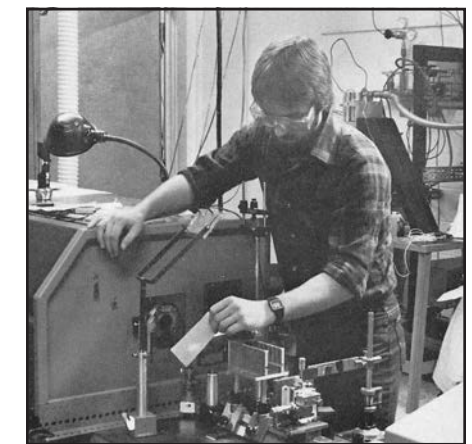
K-State won first place in the spacesuit glove design team competition, sponsored by NASA and the American Society of Engineering Education.



The old Sigma Tau pyramid got a new resting place in March when it was moved from a site near Seaton Hall to one next to Durland Hall. Taking on the relocation project were members of the student chapter of Associated General Contractors.



Harris 800 super-minicomputers were major additions in a \$1 million expansion of computing facilities; from left, Dean Donald Rathbone and Associate Dean Kenneth Gowdy.

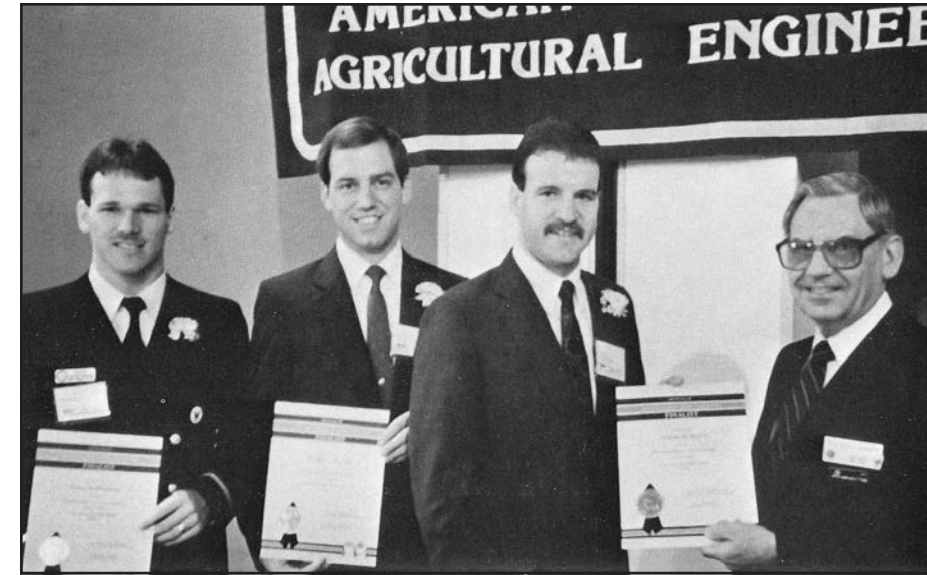


Arkady Horak, graduate student, uses eximer-pumped dye laser to study deep impurity levels in thermally and pulsed-laser annealed gas.

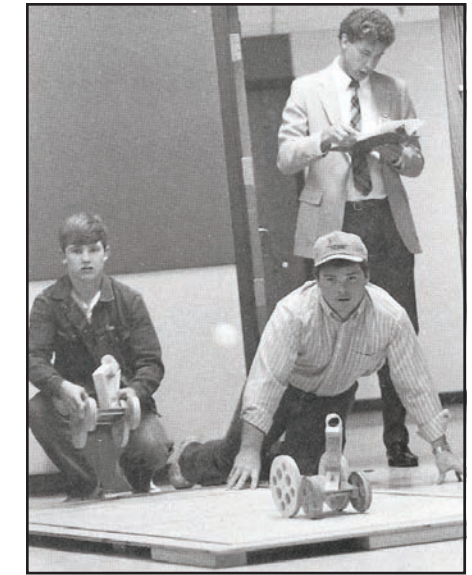
IMPACT

Highlights from 1987

- ◆ Stanley Clark, agricultural engineering professor and department head, is working with Goodyear Tire and Rubber Co. on a study of the effect of speed and surface roughness on tire performance of off-road vehicles. Goodyear has provided more than \$30,000 in research equipment for the project.
- ◆ A total of 4,500 engineering alumni contributed more than \$1 million to the college this past year, making them number one in dollars. They are third in percentage of alumni contributing at 27.1 percent, behind number two business administration at 27.3 percent and number one veterinary medicine at 30.7 percent.
- ◆ Three engineering professionals have joined the College of Engineering Advisory Council: David Ayers, president, Quintron Corp.; Gary Edwards, vice president, North America, Conoco Inc.; and Robert Tointon, president, Phelps Inc.
- ◆ The college honored the late Willard Kershaw, founder of Kershaw Ready-Mix, Manhattan, with dedication of the plaza at the southeast corner of Durland Hall. The plaza is the new resting place of the Sigma Tau pyramid, one of the university's early landmarks moved from near Seaton Hall.
- ◆ Two generations of Open House royalty met at this year's event when the 1933 St. Pat and St. Patricia, Kenneth Benjamin, EE '33, and his wife, the former Ethel Fairbanks, met 1987's royalty, Marty Smith, ME '87 and Dennis Shields, AGE '87.



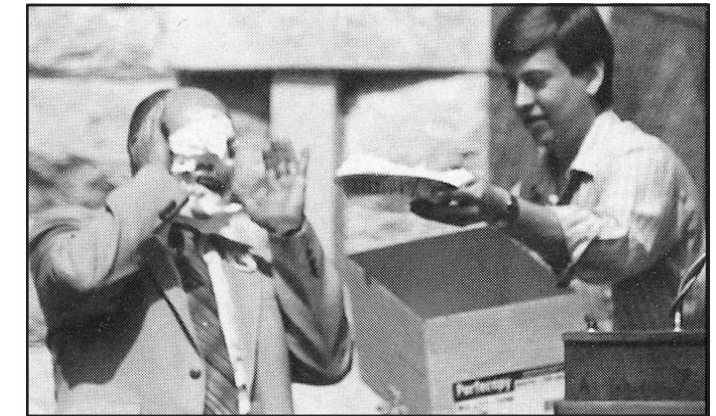
K-State students accepted their seventh first-place award in the annual design competition co-sponsored by the American Society of Agricultural Engineers.



An Open House guest watches his entry in the mousetrap launcher competition.



Student members of the American Nuclear Society spent four Saturdays this semester preparing Boy Scouts and Explorer Scouts for merit badges in nuclear energy.

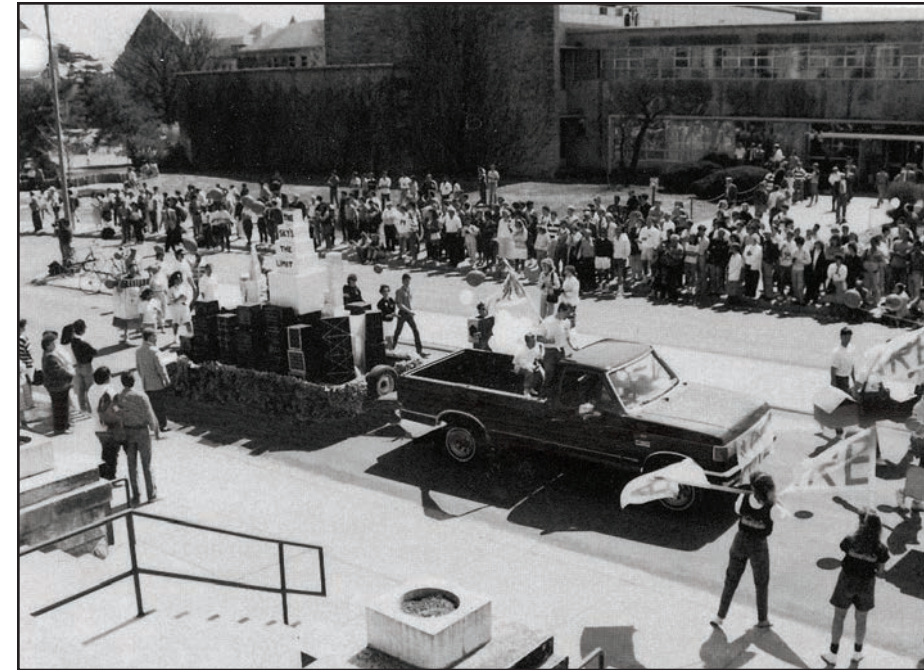


Dessert anyone? It was all in the spirit of Open House fun as Ray Hightower, assistant dean for student services, takes a pie on the chin.

IMPACT

Highlights from 1988

- ◆ The College of Engineering has established a Hall of Fame for outstanding engineering accomplishments, recognizing those graduates and friends who have distinguished themselves in their professional careers.
- ◆ The Kansas Electric Utility Research Program is sponsoring the work of Ken Shultis, nuclear engineering professor and Anil Pahwa, electrical and computer engineering professor, as they examine ways to save consumers money with innovations such as automatic meter readers and air-conditioning interrupters.
- ◆ Betty Slemen, administrative officer in the dean's office, will retire after 35 years with the university. She was honored with a special Steel Ring award for service to engineering — only the third time in the history of Steel Ring the award has been presented.
- ◆ K-State and KU are offering courses in Topeka on weeknights and weekends for engineers who are working on their master's degrees in civil engineering without leaving their jobs. K-State coordinator is civil engineering professor, Robert Snell.
- ◆ The U.S. EPA has named K-State as one of five national centers funded to conduct research into hazardous substances. Larry Erickson, chemical engineering professor is director of the center.



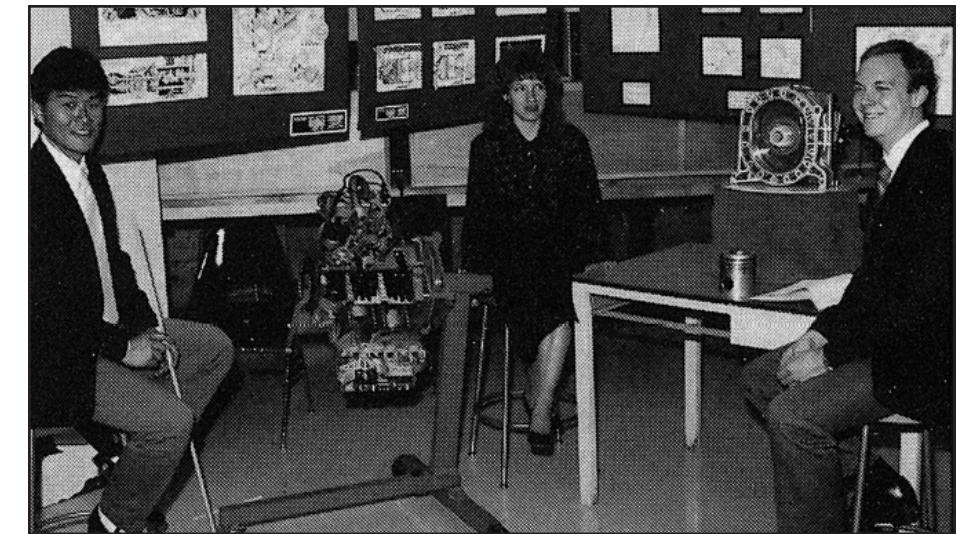
ARE students strut their stuff as the annual Open House parade passes in front of Seaton Hall.



Boeing executive Don Thomas demonstrates a voice-controlled robot in industrial engineering.



Two ARE majors ruled over Open House: Raphael "Ray" Yunk, Ellsworth, was St. Pat and Mary Hazell, Omaha, Nebraska, was St. Patricia.



Three ME students present their projects during Open House.

IMPACT

Highlights from 1989

- ◆ The late Charles and Nona Frankenhoff, Scarsdale, New York, have funded a chair, scholarship and research award for the College of Engineering with an \$846,000 gift. Charles was a 1918 graduate in mechanical engineering.
- ◆ O.D. Hunt, retired electrical engineering professor, marked his 89th birthday on April 13 pre-advising his department's students — a task he's done each semester for six weeks, 8 a.m. to 4:30 p.m., since his retirement in 1980.
- ◆ Induction ceremonies for the inaugural class of the Hall of Fame were held Oct. 7, 1989, in the main ballroom of the K-State Union. The group of 51 members represents less than one-half of one percent of total College of Engineering graduates over the past 65 years.
- ◆ Durland Hall was a hub of activity as nearly 50 industry and government representatives came to campus for the sixth annual Engineering Career Fair on Sept. 19.
- ◆ Research funding for the College of Engineering, including federal, state, and private contracts and grants, totaled \$8.6 million dollars for fiscal year 1989, an increase of \$1 million from 1988.



ARE students prepare for the annual Engineering Open House parade routed through campus.



O.D. Hunt, right, advises David McIntyre, EE junior, in preparation of his fall semester class schedule. Even though April 13, 1989, marked his 89th birthday, the retired EE professor was conducting business as usual at his "out of retirement" position.



Employers and students gather in Durland Hall at the sixth annual Engineering Career Fair.



Members of the EE class of '39 enjoyed a private tour of Durland Hall led by Donald Hummels, EE professor, when the group met for a class reunion in Manhattan.

IMPACT

Highlights from 1990

- ◆ Brig. Gen. Richard B. Myers, Deputy Chief of Staff, Langley Air Force Base, Virginia, has been selected as the 1990 Alumni Fellow of the College of Engineering. He earned a bachelor's degree in mechanical engineering in 1965.
- ◆ K- State has moved into second place behind Texas A&M in the number of engineering students selected in a national competition for 10-week public policy-making internships in Washington, D.C. Three of the 16 winners for the 1990 Washington Internships for Students of Engineering, or WISE, are from K-State, bringing its total to 10 winners since the competition began a decade ago.
- ◆ Ray Dempsey, senior in industrial engineering, has been named Outstanding Fellow by the National Society of Black Engineers. Forty-nine college students were awarded fellow status in 1990 but only one — Dempsey — received the Outstanding Fellow award.
- ◆ NASA astronaut, N. Jan Davis, visited K-State Sept. 26-27, meeting with students and faculty and conducting a public forum. She delivered a seminar for mechanical engineering students, "Space Shuttle, Space Lab and Astronaut Training."
- ◆ The U.S. Department of Energy has selected K-State to participate in its fellowship and scholarship program in environmental restoration and waste management, offering training for graduate and undergraduate students in several fields of engineering and science.



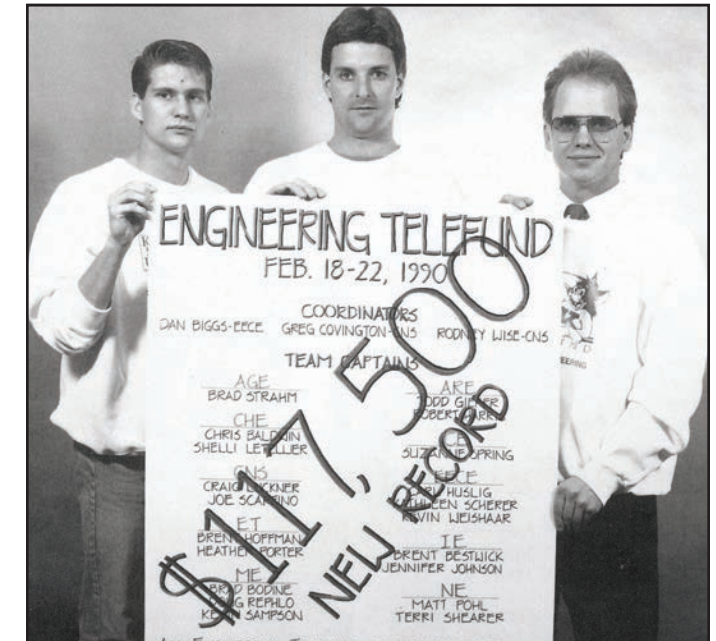
NASA astronaut N. Jan Davis visits the K-State campus. From left to right, Stephen Dyer, EE professor; Ruth Dyer, EE assoc. professor; Allen Cogley, head of ME; N. Jan Davis, NASA astronaut; and R. Michael Harnett, head of IE.



Judith Ulrich, and John Ulrich, head of ET, view an award-winning display shown to them by Mike Meisinger, AGE student.



Dean Donald Rathbone, center, congratulates the only father-son team in the Class of '89 Hall of Fame. Martin K. Eby Jr., left, CE '56, is president and CEO of the Martin K. Eby Construction Co. Inc., Wichita. Martin K. Eby Sr., right, CE '29, is founder and chairman of the board of that company.



The college set a new record in dollars and number of pledges for the Foundation Telefund. From left, Dan Biggs, EECE; Greg Covington, CNSM; and Rod Wise, CNSM.

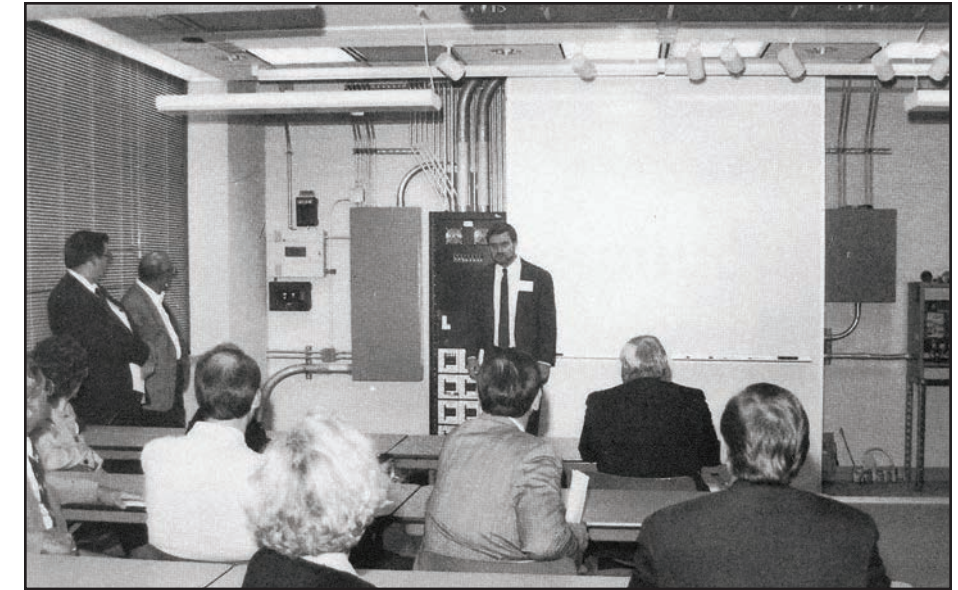
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Highlights from 1991

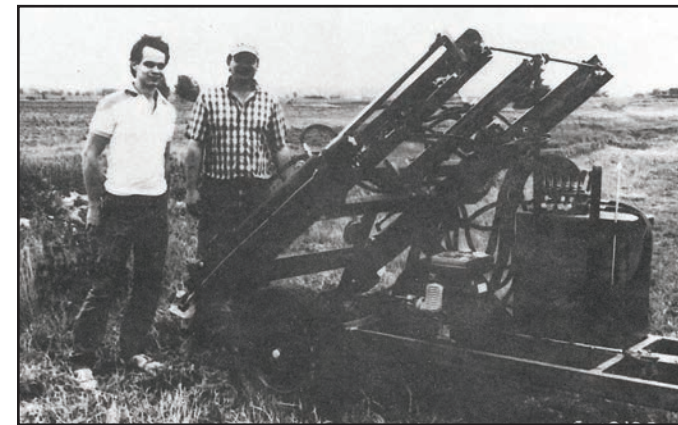
- ◆ The Kansas Board of Regents has approved a special fee for engineering equipment. Beginning in fall 1991, engineering students will pay \$100 per semester with the monies going directly to the college for needed equipment.
- ◆ The architectural engineering and construction science Lighting and Building Electrical Systems Laboratory was dedicated in ceremonies Nov. 13, brought about by gifts in excess of \$100,000 from more than 40 donors.
- ◆ The merger of K-State and the Kansas College of Technology won final legislative approval on April 13, creating the option of a four-year degree in engineering technology at KCT by transferring the K-State degree in ET to Salina.
- ◆ Senator Bob Dole announced that the U.S. DOE has awarded a grant to K-State for electric car research. The Advanced Manufacturing Institute will begin an electric/hybrid vehicle site operator program, in conjunction with supporting companies and six Kansas utility companies, under the direction of engineering professor Jim Hague.
- ◆ A \$1.4 million gift from Alice Fiedler, St. Petersburg, Florida, will allow the K-State College of Engineering to create a research and teaching library.



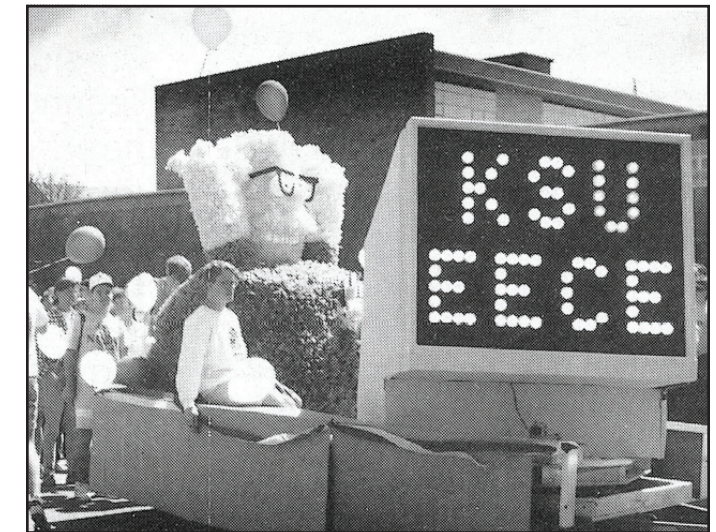
Alice Fiedler, left, and Dave and Dorothy Soldan, attend the third annual College of Engineering Hall of Fame.



Clarence Waters, assistant professor of ARE/CNS, explains functions of the newly completed lighting lab in Seaton Hall. It will be used for research, teaching and seminars.



Phil Poppe, left, and Greg Grabs, right, pose with their award-winning soil-testing trailer. They designed and built the trailer as their senior project.



EECE students ride their float in the annual Open House parade.

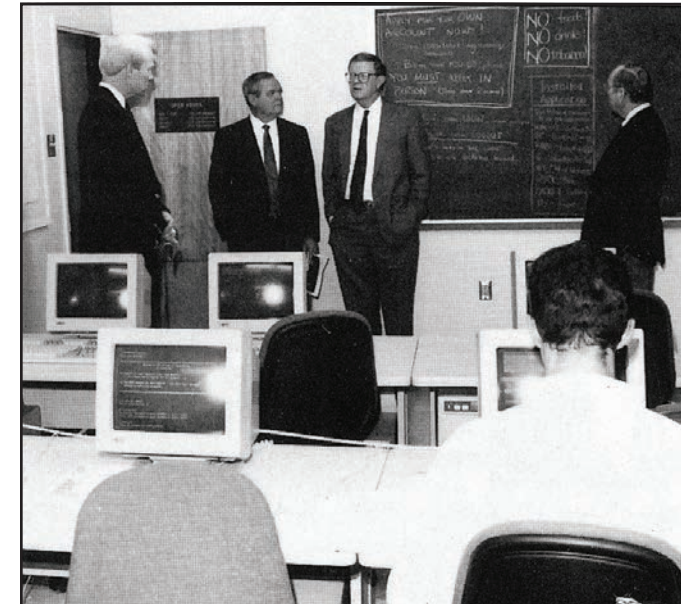
IMPACT

Highlights from 1992

- ◆ The College of Engineering has been selected as the site of the 26th annual North American Power Symposium to be held in 1994 and attended by world-wide participants. Co-chairs of the event will be electrical and computer engineering professors, Anil Pahwa and Medhat Morcos.
- ◆ The Boeing Company, Wichita, has contributed \$50,000 to the College of Engineering in support of the Integrated Design, Manufacturing and Assembly Laboratory, a part of the facilities at the Advanced Manufacturing Institute.
- ◆ Four K-State engineering students — Brad Eisenbaratah, Brad Norman, Paul Snider and Mary Wilmoth, under direction of mechanical engineering professors, Prakash Krishnaswami and Daniel Swenson, have developed prototypes for two unique chairs. The team created a swivel chair for throwing the discus and javelin, and a fixed chair for throwing the shot put, both of which will be tested in the upcoming Paralympic Games qualifying trials in Barcelona, Spain.
- ◆ Fall enrollment numbers in the college are down by 134 students due to the phasing out of engineering technology degrees. However, an increase of 200 students is expected in the spring semester when the department of computing and information sciences joins the college.
- ◆ John Lindholm, mechanical engineering emeritus professor, has been awarded a Fulbright grant to teach at the University of Assiut in Egypt for the 1992-93 school year.



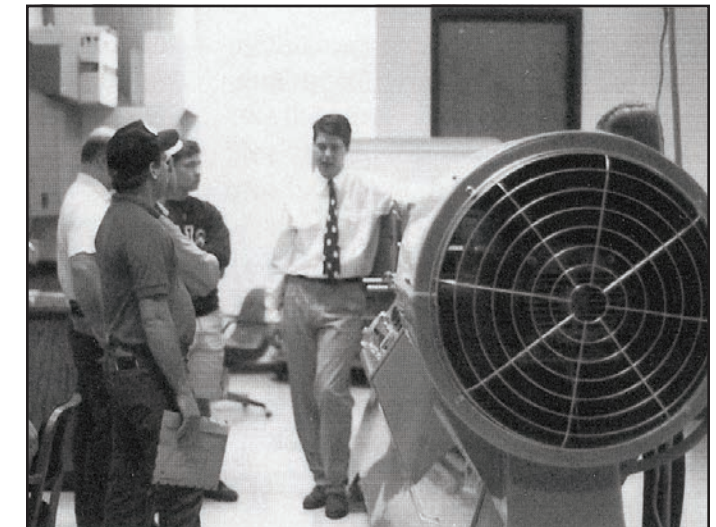
Members of Engineering Student Council pose with sponsors.



Dean Donald Rathbone, center right, talks about the college's new 486-based computer lab while leading a tour of facilities during Company of the Year events.



Paul Snider hands Kevin Saunders the shot during a field trial of one of the chairs designed for the Olympic athlete. Four students developed prototypes of two unique chairs for this special athlete during the spring semester.



An ME student shows off the wind tunnel display at Open House.

IMPACT

Highlights from 1993

- ◆ Cynthia Riemann, senior in industrial engineering and physical science, has been awarded a Marshall Scholarship for two to three years of graduate study at any university in the United Kingdom.
- ◆ Nearly 400 alumni from across the country provided jobs, contacts, referrals and advice to student callers during the Job-a-thon pilot program, a joint effort of the College of Engineering and Career and Employment Services in response to nationwide on-campus recruiting of engineering graduates being down 27 percent.
- ◆ Led by efforts of chemical engineering professor, Rodney Fox, K-State engineering students now have a "French connection" whereby they can pursue a year of senior-level studies at the Institut National Polytechnique in Nancy, France.
- ◆ New leadership in the college for the fall of 1993 includes Bradley Kramer heading the industrial engineering department, Byron Jones heading mechanical engineering and Mohammad Hosni taking over leadership of the Institute for Environmental Research.
- ◆ Jim Hague, electrical engineering technology professor, has been selected to serve on U.S. President Bill Clinton's Federal Fleet Conversion Task Force whose mission is to develop a plan for the market development of alternative fuel vehicles nationwide.



Jeff Wootton, ME, judges an entry in the spaghetti bridge competition in Paslay Auditorium.



Parade watchers witness the ignition of the rockets of ME's winning parade entry.



Lee Willis, program engineer at NASA's Johnson Space Center, Houston, explains features of the Mark IV space shuttle suit. Steel Ring invited NASA to display the suit and associated equipment during Open House.

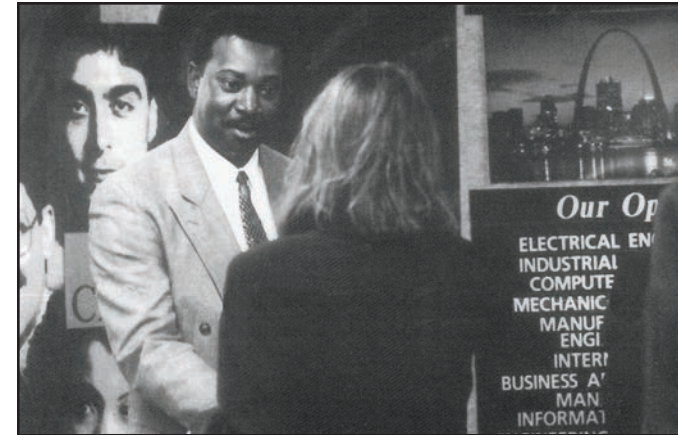


Jim R. Grier III, CE '60, and his wife, Carolyn, celebrate Jim's induction into the College of Engineering Hall of Fame.

IMPACT

Highlights from 1994

- ◆ A new project of the Students Taking Action for Rewards and Success, or STARS, program is offering College of Engineering sweatshirts for sale to alumni, students and friends. Money raised from the sales will support development of communication skills, teamwork, leadership and professionalism.
- ◆ The department of agricultural engineering has a new name — the department of biological and agricultural engineering. The Kansas Board of Regents granted formal approval of the change to better reflect the scope of the department, which is now incorporating additional biology-related courses.
- ◆ Gerry Oppliger, mechanical engineering graduate and College of Engineering Hall of Fame member, has been presented the Space Congress Achievement Award for having made “the most significant management contribution to the aerospace effort at Kennedy Space Center during the previous five years.” He is president of the Lockheed Space Operations Company.
- ◆ Evaluating beef tallow as a possible substitute for diesel fuel is a newly funded DOE project for two agricultural engineers, Richard Nelson, Engineering Extension, and Mark Schrock, Agricultural Experiment Station.
- ◆ Three new members have been inducted into the College of Engineering Hall of Fame: Mark Enns, EE '53; Lt. General Richard Myers, ME '65; and Laree Mugler, ME '72.



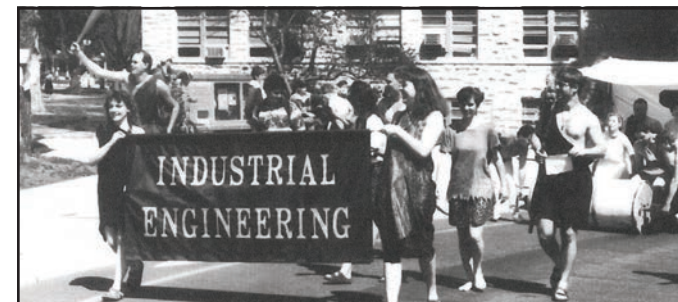
Julius McClellan, McDonnell-Douglas, visits with a student at his company's booth during the first universitywide career fair Sept. 29.



Dean Donald Rathbone, left, stands with the 1994 inductees to the Hall of Fame, left to right, Mark K. Enns, Laree A. Mugler and Richard B. Myers, during a reception in their honor Oct. 7.



The college's newest facility, the Manufacturing Learning Center, is located on Manhattan's east side in the industrial park.



Students show the progress from prehistoric to modern with the contrast between their "Flintstones"-style vehicle and a modern truck.



An audience gathers to watch robots battle to dominate the circle in a display by computer engineering and computer science students.

1995 to 2004



IMPACT

Highlights from 1995

- ◆ Civil engineering faculty members Phillip Kirmser, Tony Hu and Stuart Swartz have received a patent for their earthquake-resistant design that advances the base isolation system, whereby the foundation of a structure moves with the earth while buffering the upper stories or deck.
- ◆ Michelle Munson, senior in electrical engineering and physics, has been named by Glamour magazine as one of the top 10 college women in the U.S. for 1995. Munson, a Goldwater Scholarship recipient, was also honored this year by Kansas Women in Energy Inc. with a scholarship for an award-winning essay.
- ◆ Two engineering alumni, Charles K. Eby, civil engineering, and Tim Taylor, chemical engineering, have been honored with College of Engineering Distinguished Service Awards for 1995.
- ◆ Fall undergraduate enrollment numbers held steady in engineering at 2,584 students, a 14 student decrease from fall 1994.
- ◆ An anonymous gift of \$345,000 has launched the building of a one-of-a-kind facility — civil engineering's Testing Laboratory for Civil Infrastructure and Highway Research — to study highway construction methods.



Alice Fiedler views a model of the engineering library to be built to the west of Durland Hall, Phase II. The library, scheduled for construction in 1996, will be named for her and her late husband, George Fiedler, a 1926 EE graduate.



Chris Kneisler, junior in EECE, makes last-minute adjustments to his robot during the robot sumo competition.



CNSM students display their vision of big dreams and confident promises during the Open House parade.



University Provost James Coffman, right, congratulates Dean Donald Rathbone on being a surprise nominee to the Hall of Fame.



Deere and Company representatives Becky Nordin, a K-State grad, and Hansel Jones visit with engineering students during the Career Fair.

IMPACT

Highlights from 1996

- ◆ Steve Dyer, electrical and computer engineering, and B. G. Kyle, chemical engineering, were each selected to write a chapter in a new engineering reference publication, The Engineering Handbook. Contributors to the 3,000-page volume are considered to be the “who’s who of engineering.”
- ◆ Steve McGinnis, biological and agricultural engineering, is a member of the first class of recipients of the Udall Scholarship, awarded nationwide to 55 sophomores or juniors preparing for careers related to the environment.
- ◆ Phase II of the K-State engineering complex, built in 1983, will be renamed to honor Donald E. Rathbone, dean of engineering for the past 23 years.
- ◆ IBM has moved K-State engineering to a tier 1 ranking among schools from which it will actively recruit employees.
- ◆ Beginning in fall 1996, the College of Engineering will no longer have a department of nuclear engineering, making nuclear engineering instead an option in mechanical engineering. The master’s degree in nuclear engineering will be retained.



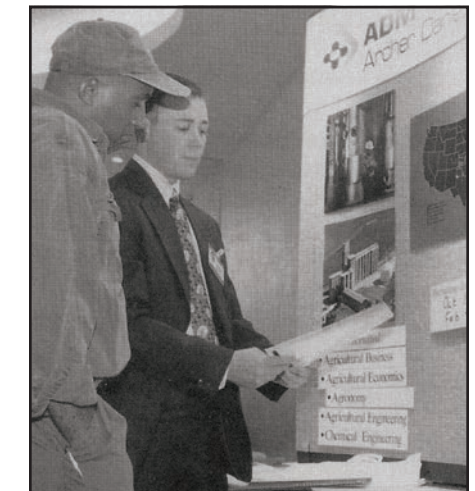
A crowd fills the atrium of Durland Hall to visit booths presented by student organizations during Open House.



Kyle Campbell and Amy Alexander, St. Pat and St. Patricia honorees, enjoy the parade that annually opens Open House festivities.



Dean Donald Rathbone and Tau Beta Pi members welcome John Deere representatives for Company of the Year events.

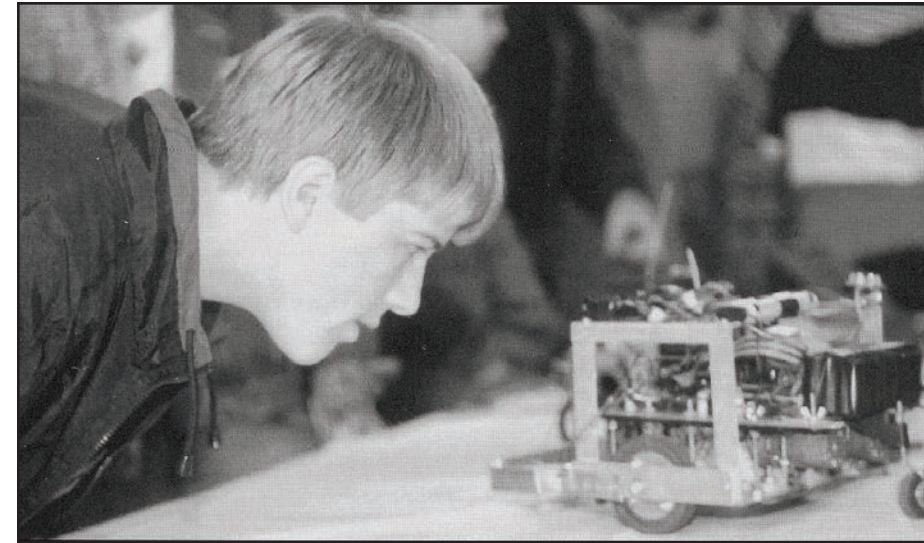


More than 3,000 students visited the 200 booths presented by 190 companies during the All-University Career Fair Sept. 17 in the K-State Union.

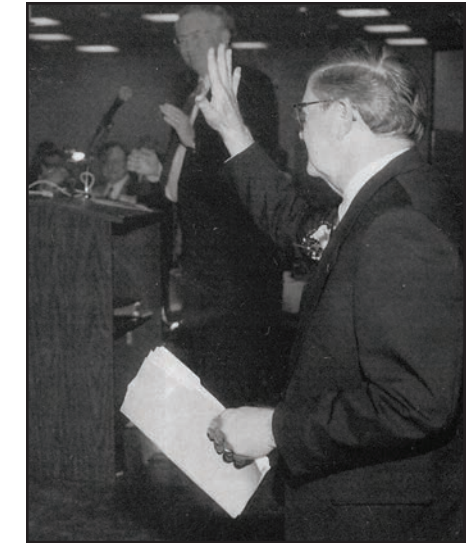
IMPACT

Highlights from 1997

- ◆ Terry S. King, chair of Iowa State University's chemical engineering department, will assume duties as dean of the College of Engineering in June.
- ◆ Donald E. Rathbone was honored with a retirement celebration banquet in May with more than 350 people in attendance. Friends and well-wishers have so far contributed \$77,000 dollars to the Rathbone Scholarship Fund that will provide support for engineering students in all disciplines.
- ◆ Shing Chang, industrial and manufacturing systems engineering, is one of 12 persons nationwide in manufacturing engineering who will be presented with the Ralph E. Cross Outstanding Young Manufacturing Engineer Award. The honor goes to those under 35 who have demonstrated leadership in and contributed significantly to the field.
- ◆ The K-State solar car organization has nearly finalized primary design work on "Solution," the university's first entry in a solar car competition. Plans are to compete in Sunrayce '97, a 10-day run from Indianapolis, Indiana, to Colorado Springs, Colorado.
- ◆ Five engineering faculty members have been promoted to full professor: Gary Clark, biological and agricultural engineering; John Devore, Ruth Dyer and Medhat Morcos, all electrical and computer engineering; and James Edgar, chemical engineering.



A visitor gets down for a close look at the inner workings of one of the entries in the robot competition at Open House.



At the close of the ceremonies, Dean Donald Rathbone thanks the 350 people who came to wish him well at his retirement reception.



Several tables of undergraduates and graduates came to wish Dean Donald Rathbone well and express their thanks for his support of their professional and developmental groups.



James Hill, ASHRAE president, second from left, stands with the organization's scholarship recipients, Michael Wallis, Julia Trowbridge and Jeanne DeGreef.

Impact

Highlights from 1998

- ◆ Rather than a traditional groundbreaking, dignitaries and guests opted for a ribbon-cutting at the west wall of Rathbone Hall where the new Fiedler Hall and Library, the third phase of the Durland, Rathbone, Fiedler complex, will link to the rest of the structure through a hallway.
- ◆ Dean Terry King announced implementation of a new program to train faculty members in “learning-based” education.
- ◆ The National Science Foundation, through its EPSCoR program, has awarded a two-year \$500,000 grant to the non-contact measurement and sensing group in the College of Engineering.
- ◆ Master’s degree programs in civil, chemical, electrical and software engineering, and engineering management, are now available by distance education through the Division of Continuing Education.
- ◆ Two new department heads have recently been named: J. Garth Thompson, mechanical and nuclear engineering, succeeding Byron Jones; and Stevin H. Gehrke, chemical engineering, replacing L.T. Fan.



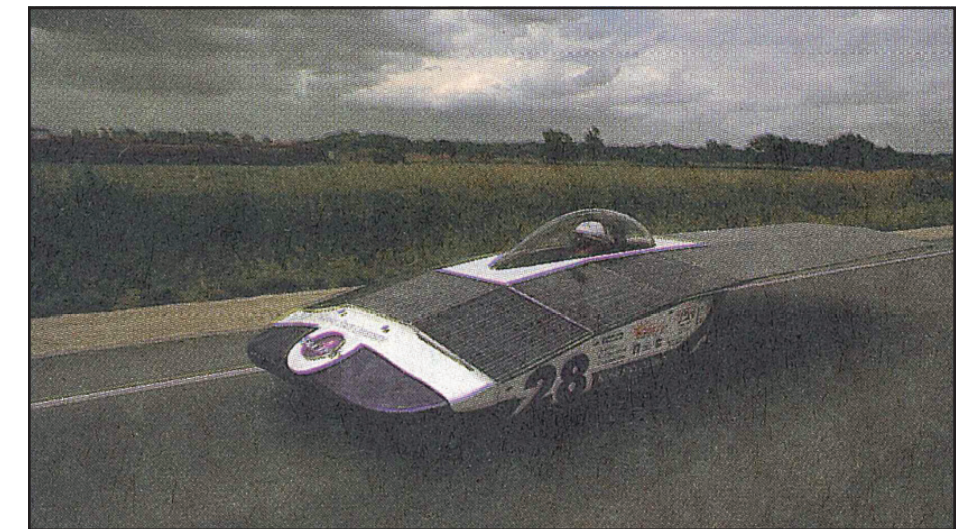
More than 300 guests, faculty, staff and students crowded into the atrium of Rathbone Hall to watch the groundbreaking ceremony for Fiedler Hall and Library.



Alice Fiedler, right, prepares to cut the groundbreaking ribbon as Gov. Bill Graves, left, lends a hand.



Donald Rathbone, former dean of engineering, stands beside the sign designating the hall formally named for him.



The solar car team’s car, “Solution,” finished 24th out of a field of 36 entries at the end of the 1,230-mile, 10-day Sunrayce ’97. It was the second-best finish ever by a rookie team.

Impact

Highlights from 1999

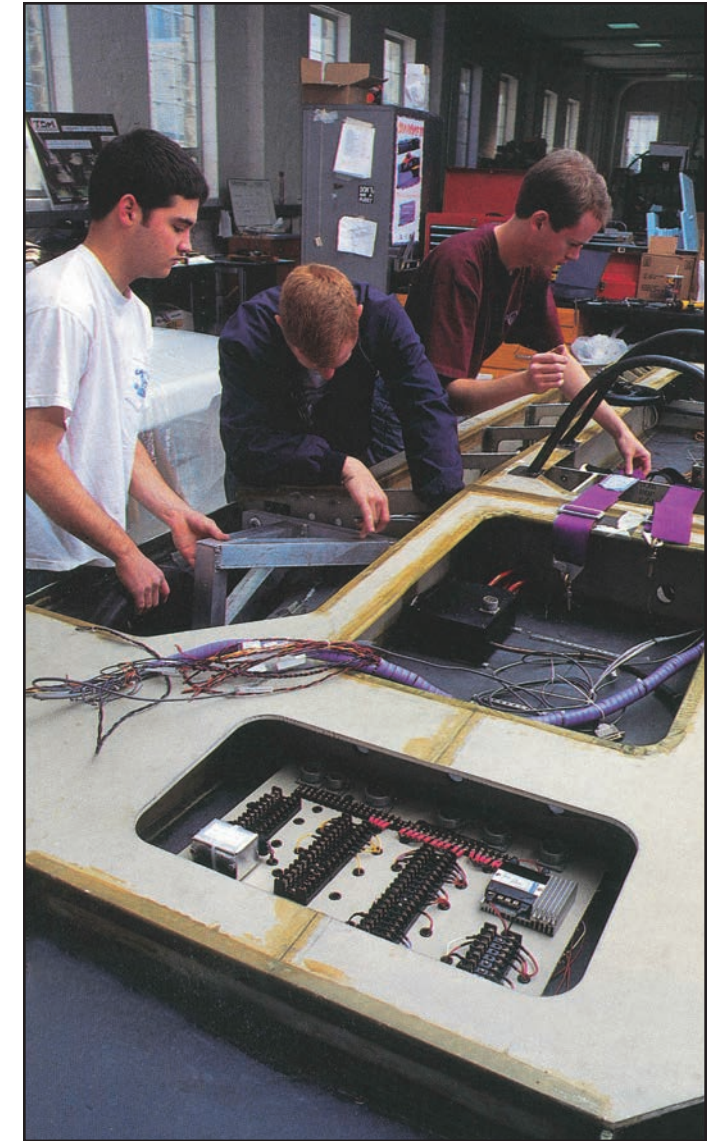
- ◆ More than 61 teams from 58 colleges and universities came to the K-State campus and Milford Lake to compete in the three-day Mini Baja West competition, hosted by the K-State chapter of the Society of Automotive Engineers.
- ◆ Alumnus Jim Geringer, ME '67, and current governor of Wyoming, was honored with the college's Distinguished Service Award during commencement ceremonies May 15.
- ◆ Faculty members Alok Bhandari, civil engineering, and William Kuhn, electrical and computer engineering, have each received the prestigious National Science Foundation Faculty Early Career Development Award to fund their research.
- ◆ Three engineering students have been awarded top national scholarships: Peter Pauzauskie, chemical engineering, Goldwater Scholarship; and Jennifer Wright, biological and agricultural engineering, and Steven Alley, chemical engineering, both Udall Scholarships.
- ◆ Suzanne Franks, who holds a Ph.D. in biomedical engineering, has been hired to head a new endeavor, the Women in Engineering and Science Program, or WESP, to help the college meet its goal of awarding 25 percent of its baccalaureate degrees to women in the next five years.



Dean Terry King stands in front of the construction of Fiedler Hall.



Row after row, table after table of engineering students and faculty call alumni during Telefund. Thanks to the generosity of alumni, they were able to raise \$247,364 for the college.



Jason Northup, left, and Damian Brandenburg, center, drop a rear wheel assembly into place while Chris Hopkins makes an adjustment to wiring for cockpit controls on the solar team car.

Impact

Highlights from 2000

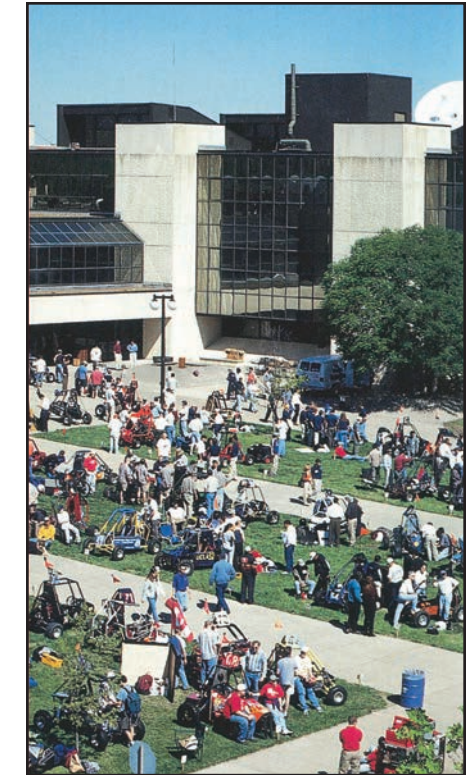
- ◆ Study Engineering Abroad, a part of K-State's International Student Exchange Program, currently has nine students participating in six disciplines in six different countries, according to Ray Hightower, assistant dean of engineering.
- ◆ Fiedler Hall, the more than 75,000-square-foot addition to the engineering complex and new home of civil engineering, was officially dedicated Sept. 9, 2000.
- ◆ Four College of Engineering professional student chapters have been cited as outstanding student chapters in the nation for 1999-2000: Society of Automotive Engineers, Associated General Contractors, American Society of Agricultural Engineers and American Institute of Chemical Engineers.
- ◆ A new annual recognition — the Professional Progress Award — was begun at this year's Seaton Society Banquet, recognizing seven alumni who have graduated within the last 20 years and had success in their profession, service to society and support of K-State engineering. Inaugural recipients were Bill Cary, computer science; Sue Barsamian, electrical engineering; Jerry Marr, agricultural engineering; Ron Brown, architectural engineering; Jacquelyn Zidek, industrial engineering; Kevin Honomichl, civil engineering; and Scott Love, chemical engineering.
- ◆ Albert Sacco Jr., who flew as a payload specialist on a 16-day mission aboard the space shuttle Columbia in 1995, was the inaugural speaker for the newly established Eyestone Distinguished Lecture Series in the College of Engineering.



K-State engineering students mingle with employer representatives and sponsors prior to the 17th annual College of Engineering Career Fair/Recognition Banquet.



Guests tour the newly completed Fiedler Library.



Entrants for Mini Baja West gather on the lawn of the engineering complex.



More than 250 guests, dignitaries, faculty, staff and students assembled for the official dedication of Fiedler Hall — a 75,000-square-foot addition to the engineering complex.



Highlights from 2001

- ◆ A \$1M capital campaign, co-chaired by alumni Carl Coonrod, ARE '49, and Dean Kays, AGE '51, has begun to fund the renovation of 20,000 square feet of laboratory, classroom and office space in West Seaton Hall for the departments of architectural engineering and construction science, and biological and agricultural engineering.
- ◆ John Hatcliff and Matt Dwyer, both computing and information sciences, have been awarded a \$3.2M grant from the U.S. Department of Defense for development of the next generation of safety-critical software.
- ◆ Two distinguished engineering alumni from the class of '65 — Gen. Richard Myers, mechanical engineering, Chairman of the Joint Chiefs of Staff, and Warren Staley, electrical engineering, chairman of the board and CEO of Cargill Inc., were on campus in October. Myers visited area military facilities and spent time with K-State ROTC students. Staley was the guest speaker for the campus-wide Distinguished Lecture Series. Both were guests of the college in its skybox for the KU-K-State football game.
- ◆ The National Gas Machinery Laboratory, under the direction of Kirby Chapman, mechanical and nuclear engineering, has been relocated from Salina to a new 113,000-square-foot facility in Manhattan's industrial park.
- ◆ Ray Hightower, assistant dean of student services for the College of Engineering, was recognized by Kansas Gov. Bill Graves for his more than 40 years of public service to the college, university and state.



Gen. Richard Myers greets K-State ROTC cadets following a luncheon on Oct. 27.



Kirby Chapman, MNE associate professor, directs research for improving and retrofitting natural gas technologies at the National Gas Machinery Laboratory.



For the third consecutive year, the Powercat Pullers team, made up of BAE and ATM undergraduates, brought home the gold in the American Society of Agricultural Engineers International Student Design Quarter-Scale Tractor Competition.



Dow personnel present diversity partnership gift to K-State officials at halftime of the Colorado game, Oct. 6.

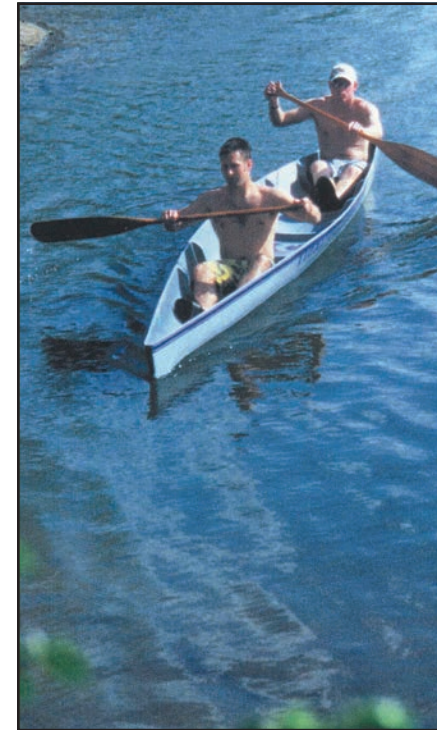


Highlights from 2002

- ◆ Dean Terry King touted the leadership of engineering students on campus, who while only representing 15 percent of the total student body, hold positions as K-State student body president — Zac Cook, biological and agricultural engineering senior; presidencies of nine dorms; 29 percent of all fraternity presidents; as well as serving on numerous governing boards and as officers in campus-wide organizations.
- ◆ Mo Hosni, mechanical and nuclear engineering, and Larry Erickson, chemical engineering, were instrumental in developing and establishing the Environmental Air Quality program at K-State, funded by a National Science Foundation EPSCoR grant and the university to combat bioterrorism attacks as well as naturally occurring dangers such as influenza, and the West Nile and hanta viruses.
- ◆ Dianne Linder Honomichl and Kevin Honomichl, both CE '86, were recipients of the 2002 Distinguished Service Award, not only the first woman so honored in Dianne, but also the first couple.
- ◆ The late LeRoy Paslay, EE '30 and M.S. '34, in memory of his wife, funded refurbishing of the singing tower at Sunset Cemetery in Manhattan. Paslay originally designed the tower's sound system and electrical components in 1932. The 2002 update was a joint effort of engineering faculty and former dean, Donald Rathbone, who served as project manager.
- ◆ Summer 2002 was the inaugural year for the Summer Professional Experience for First-Year Students, allowing engineering students who had completed their freshman year to work in industries related to their discipline. Several members of the engineering advisory council offered these appointments from within their companies including Dow Chemical, Union Pacific and Dell Computer.



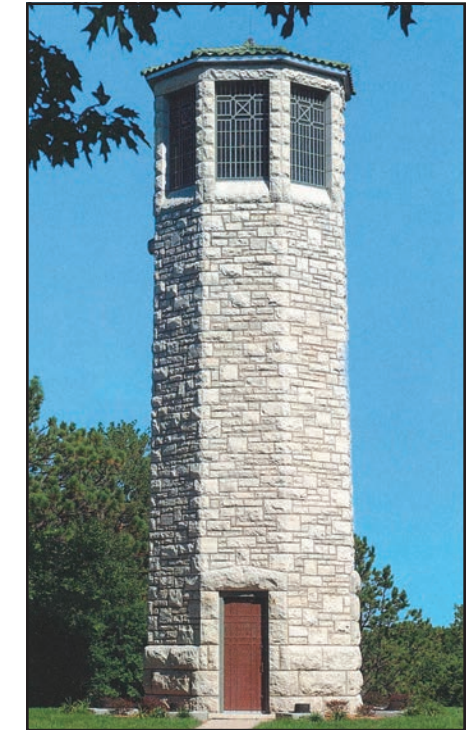
Couples dance at the Seaton Society Banquet and Engineering Ball.



Members from the K-State student chapter of the American Society of Civil Engineers test their concrete canoe on Tuttle Creek.



Steven Gehrke, CHE department head, checks a fermenter used for culturing bacteria.



The singing tower at Sunset Cemetery was refurbished by LeRoy Paslay, EE '30 and M.S. '34.



Highlights from 2003

- ◆ Douglas McGregor, mechanical and nuclear engineering, has brought his entire Semiconductor Materials and Radiological Technologies Laboratory, or S.M.A.R.T. lab, with him from the University of Michigan to Ward Hall, conveniently near K-State's Triga Mark II nuclear reactor.
- ◆ Julie Thornton, senior in computer science and mathematics, has been awarded a nearly \$40,000 National Science Foundation Graduate Research Fellowship. She was also a previous Goldwater Scholar.
- ◆ Funded by U.S. and Kansas DOTs, Bob Peterman, civil engineering, tests new materials used to strengthen and repair bridge beams, rather than replace them, at the Civil Infrastructure Systems Laboratory on the east side of Manhattan as well as in lab space in the basement of Fiedler Hall.
- ◆ Furnishings have recently been added to the Minarcini Plaza, a gathering spot just outside the south doors of Fiedler Hall, named with a gift from Ron, CE '60 and M.S. '61, and Joanne Minarcini.
- ◆ The 40th anniversary of the Institute for Environmental Research in the College of Engineering was celebrated June 28 at Union Station in Kansas City as part of the 2003 annual meeting of ASHRAE.



Department heads Jim Koelliker, BAE, left, and Dave Fritchen, ARE/CNS, check over blueprints of the planned renovation of West Seaton Hall.



Dick and Barb Hayter, left, share a light moment with Kevin and Dianne Honomichl at Seaton Society.



Engineering students enjoy a warm fall day on the Minarcini Plaza outside of Fiedler Hall.

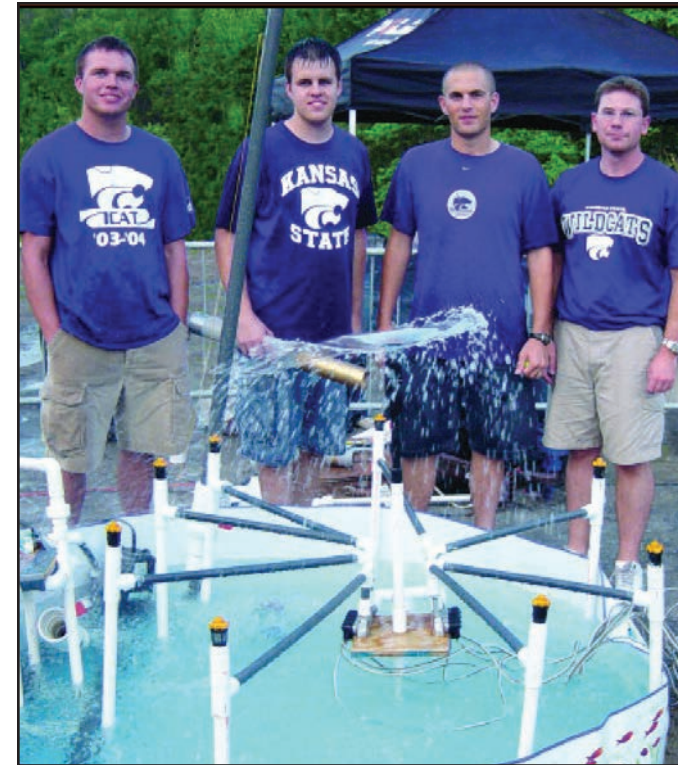


2003 Open House torch runners are accompanied by Dean Terry King, white shirt, center.



Highlights from 2004

- ◆ Mary Rezac has been named head of the department of chemical engineering, the first woman to hold such a position in the College of Engineering.
- ◆ Students are gathering between classes at Campus Grounds Espresso, a new coffee shop that opened in January in the engineering complex atrium.
- ◆ Tom Logan, architectural engineering and construction science, also a Lt. Commander in the Naval Reserves, recently completed a two-week assignment in the Philippines to rebuild an airfield runway in Magsaysay as a part of efforts to combat terrorist activities in the region.
- ◆ Alumnus John Slaughter, EE '56, president and CEO of the National Action Council for Minorities in Engineering, or NACME, has been named recipient of the National Academy of Engineering's 2004 Arthur M. Bueche Award.
- ◆ The college has announced two interim appointments: LaVerne Bitsie-Baldwin, interim director of the Multicultural Engineering Program; and Anil Pahwa, interim department head of electrical and computer engineering.



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.



Students gather between classes at the Campus Grounds Espresso, a new coffee shop that opened in the engineering complex atrium.



Alumni, faculty, students and friends of the computing and information sciences department met to celebrate 10 years of association with the College of Engineering.



Seaton Society was 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.



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 Clark, AGE '67, M.S. '71, are gathered Oct. 30 for the dedication of the West Seaton renovation.

2005 to 2014



Impact

Highlights from 2005

- ◆ A record-breaking 70 companies attended the 2005 Spring Engineering Career Fair Feb. 8 in the atrium of the engineering complex.
- ◆ Bill Kuhn, electrical and computer engineering, will develop a micro transceiver to be used on future Mars rovers and scouts as part of a \$900,000 grant split among K-State, NASA's Jet Propulsion Laboratory at the California Institute of Technology and the Peregrine Semiconductor.
- ◆ Faculty and staff in the college received hands-on diversity training during workshops led by nationally renowned facilitator, JoAnn Moody, founding director of the Northeast Consortium for Faculty Diversity.
- ◆ Twelve teams, involving more than 140 students, were recognized at the Fall Engineering Awards Banquet. Thirty-five percent of this year's graduates had participated in team projects/competitions while at K-State.
- ◆ The following were inducted into the College of Engineering Hall of Fame, class of 2005: Greg Tucker, ME '78; William Clarkson, CE '49; Dixon Doll, EE '64; Carl Ice, IE '79; Sue Barsamian, EE '81; and Edwin Wambsganss, CE '62.



Bill Kuhn, associate professor of electrical and computer engineering, received a grant to develop a micro transceiver to use on future Mars rovers and scouts.



Gen. Richard Myers, ME '65, chairman of the Joint Chiefs of Staff, meets with engineering students prior to graduation ceremonies. Myers delivered the commencement address to the class of 2005.



Trisha Culbertson, BAE, left, is the 13th K-State student to be awarded a Morris K. Udall Scholarship and David Thompson, EE, right, is one of 53 Barry M. Goldwater Scholarship recipients.



A record-breaking 70 companies attended the 2005 Spring Engineering Career Fair in the atrium of the engineering complex.



A young driver gets instruction from the Formula One car team.



Highlights from 2006

- ◆ Dean Terry King will be leaving the College of Engineering to become provost and vice president for academic affairs at Ball State University. Richard Gallagher, associate dean and professor, will serve as interim dean until a replacement is found.
- ◆ Tau Beta Pi has selected the GE Johnson Construction Co. as its 2006 Company of the Year, and James M. Johnson, CE '84, president and CEO of the company, as its Leader of the Year.
- ◆ In May, Sutton Stephens, architectural engineering and construction science, traveled with 11 students to Sweden; and Naiqian Zhang and Donghai Wang, biological and agricultural engineering, took eight students to China. The trips were part of the new Faculty-Led Study Abroad program sponsored by the K-State Office of International Programs offering students and faculty a two-week overseas experience.
- ◆ The computing and information sciences student mobile robotics team took first place in the scavenger hunt at the 15th annual Mobile Robot Competition at the American Association for Artificial Intelligence annual conference in Boston.
- ◆ Recent electrical engineering graduate, David Thompson, has been named a Fulbright Scholar and will begin graduate studies at Tohoku University in Sendai, Japan, as a Fulbright Fellow.



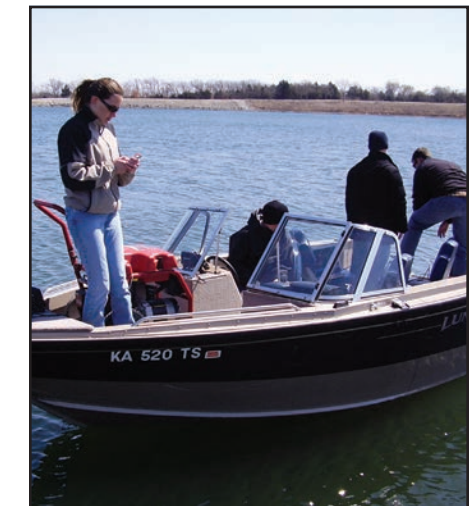
Seaton Society guests enjoy music from Kansas City-based band, Multiphonic, in the main ballroom of the K-State Alumni Center.



The Agricultural Modernization class poses in front of a bell tower in the ancient city of Xi'an, China.



The student mobile robotics team captured first place in the scavenger hunt at the Mobile Robot Competition at the American Association for Artificial Intelligence annual conference.



CE students from the natural resources and environmental sciences capstone class conducted a bathymetric survey of the bottom surface of Fort Scott Lake.

IMPACT

Highlights from 2007

- ◆ John English joined the College of Engineering in July as its ninth dean. He was previously head of the industrial engineering department at the University of Arkansas, Fayetteville.
- ◆ The K-State Aero Design Team, advised by Terry Beck, mechanical and nuclear engineering, took first place among 27 teams in the Society of Automotive Engineers Aero Design West competition. The students designed, built and competed with their 8.5-pound radio-controlled plane, "The Manhattan Project."
- ◆ David Steward, civil engineering, leads the Consortium for Global Research on Water-based Economics, or GroWE, with researchers from five departments and four colleges at K-State dedicated to effective management of groundwater resources.
- ◆ The department of civil engineering, established by the Kansas Board of Regents in 1907, is celebrating its 100th anniversary this year. Its first graduating class of seven men was in 1910 and its first master's degree was granted in 1926.
- ◆ Don Gruenbacher has been named department head of electrical and computer engineering, and James Koelliker has been named interim head of civil engineering.



A rainy parade opens the 85th annual Engineering Open House.



The Carter Learning Center was dedicated at the Founders Luncheon, a part of the festivities of the Seaton Society Celebration.



The Aero Design Team placed first out of 27 teams in the Society of Automotive Engineers Aero Design West competition.



K-State's entry is on display at the 2007 Solar Decathlon on the National Mall in Washington, D.C.



The K-State Department of Civil Engineering celebrated the 100th anniversary of the founding of the department. Governor Kathleen Sebelius issued a proclamation of recognition of the milestone.

IMPACT

Highlights from 2008

- ◆ Betsy Voigt, senior in mechanical engineering, was awarded a Fulbright Scholarship to begin her graduate studies in Germany. Her sister, Emily Voigt, senior in chemical engineering, was awarded an NSF Graduate Research Fellowship for a three-year Ph.D. program at the University of Wisconsin.
- ◆ K-State's chapter of Engineers Without Borders completed its first official project when four students and two faculty advisers went on a 12-day trip to India to develop and design a conveyance system.
- ◆ A tornado struck Manhattan June 11 inflicting an estimated \$20 million in damages to the K-State campus including the Durland/Rathbone/Fiedler engineering complex and Ward Hall.
- ◆ Julia Keen, architectural engineering and construction science, became the first faculty member in the nation to achieve the designation of High-Performance Building Design, or HPBD, Professional.
- ◆ A recently approved secondary major — a first for K-State engineering — in biological engineering will enable engineering students here to pursue their interests in biological sciences while working toward a degree in a primary engineering major.



Damage was wide spread from the June 11 tornado outside of the engineering complex.



Julia Keen, ARE/CNS assistant professor, talks to students about high-performance building design.



BAE students work the activity table at Engineering Open House.



K-State Engineers Without Borders students visit the Taj Mahal, left to right: Trisha Culbertson, Rachel Bain, Mark Hopkins and Paul Bruss.

IMPACT

Highlights from 2009

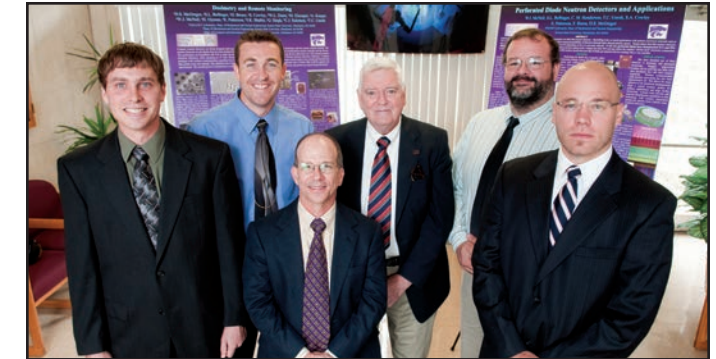
- ◆ More than 40 Tau Beta Pi members with faculty adviser, Larry Satzler, spent a morning picking up trash, clearing brush, and whitewashing the K and S on K-Hill. The concrete K was constructed by College of Engineering students in 1921 and the S added in 1930.
- ◆ The fall engineering advisory council meeting honored out-going chair Cathy Ritter, CE '75, and welcomed incoming chair, Carl Ice, IE '79.
- ◆ Ruth Douglas Miller, electrical and computer engineering, received an award for Outstanding Leadership in the Application of Wind for Schools from the U.S. Department of Energy Wind Powering America program.
- ◆ Four construction science management students tied for first place among 50 teams in an international concrete construction competition sponsored by the American Concrete Institute. The team was charged with creating a proposal for restoration of a pedestrian overpass in Houston, Texas.
- ◆ The following have been named to departmental leadership positions: biological and agricultural engineering interim head, Joe Harner; chemical engineering head, James Edgar; computing and information sciences head, Gurdip Singh; and mechanical and nuclear engineering head, Don Fenton.



More than 40 Tau Beta Pi members and faculty adviser Larry Satzler did cleanup at and whitewashed K-Hill Oct. 10.



For the second time in the last three years, K-State's Aero Design Team won first place overall in the regular class event at the annual SAE Aero Design West competition.



S.M.A.R.T. Lab team members receive an R&D Award for their neutron detector.



Engineering students sing Wildcat Victory, the K-State fight song, entertaining Seaton Society attendees.



An outdoor view of the newly replaced reactor walls shows an improved system of panels rated for 90 mph winds, with replacement following the June 2008 tornado.

IMPACT

Highlights from 2010

- ◆ K-State's Women in Science and Engineering Program, or WESP, has been named the nation's outstanding program, having received the Women in Engineering Program Award presented by the Women in Engineering Pro-Active Network.
- ◆ Sundanda Dissanayake, civil engineering, has been named a Fulbright Scholar and will teach for seven months in Sri Lanka, assisting with curriculum enhancement at the University of Peradeniya.
- ◆ Twenty-nine engineering students from eight disciplines took part in this year's Spring Break Alternative, traveling by bus March 14-17 to tour corporate and manufacturing facilities and network with industry professionals in Kansas City and Topeka.
- ◆ Electrical and computer engineering faculty Dave Soldan, Don Gruenbacher and Noel Schulz have been awarded a National Science Foundation grant to help military veterans enter the workforce at an accelerated pace.
- ◆ The College of Engineering joined other K-State colleges in hosting hospitality tents prior to the K-State vs. Iowa State football game at Arrowhead Stadium in September. Faculty, students and staff handed out materials, displayed student projects and visited with alumni and fans.



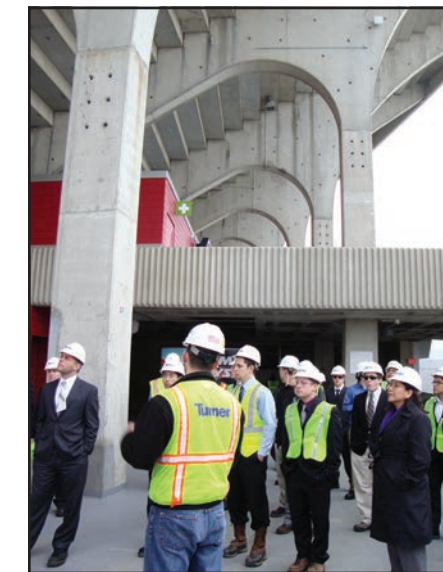
A Defense to Degree program participant consults with David Soldan, right, one of three ECE professors using an NSF grant for a project to help military veterans enter the workforce at an accelerated pace.



Willie takes the wheel of the Formula SAE car, designed and built by students and on display Sept. 18 prior to the K-State vs. Iowa State football game at Arrowhead Stadium in Kansas City.



Emily Tummons, BAE junior, is among 278 students nationwide to receive 2010 Barry M. Goldwater Scholarships.



K-State engineering students listen as Turner Construction officials explain details of recent upgrades of Arrowhead Stadium, one stop of the Spring Break Alternative, March 14-17.



Skits, displays and competitions abound at Engineering Open House.

IMPACT

Highlights from 2011

- ◆ The University Engineering Initiative Act, or UEIA, was passed by the Kansas Legislature and signed into law May 25, 2011, to provide support for growing the number of engineering graduates at K-State as well as KU and Wichita State.
- ◆ First-place finishes were awarded to three biological and agricultural engineering teams — robotics, fountain wars and quarter-scale tractor — at the ASABE annual international competitions.
- ◆ Engineering alum, James Michael Duncan, M.D., NE '73, presented the Eyestone Lecture in September on his experiences of leading the NASA team that had traveled to Chile in support of the rescue effort of 33 trapped miners.
- ◆ The Electrical Power Affiliates Program directed by Noel Schulz, electrical and computer engineering, teamed up with member utility affiliates and Burns & McDonnell to host Electrical Power Affiliates Day. Students participated in mock interviews, attended small group sessions and visited industry displays.
- ◆ Bette Grauer has joined the College of Engineering as the assistant dean for retention, diversity and inclusion.



Willie the Wildcat tries out a new pushup platform designed and built by construction science students.



Dean John English served as event host and baritone sax player for the ThunderingCats Big Band at Seaton Society.



BAE students and Joe Harner, department head, celebrate the department's stellar showing at the annual ASABE International Meeting.



Four engineering graduate students were selected to share their research findings with legislators, the Board of Regents, industry representatives and the public at the eighth annual Capitol Graduate Research Summit in Topeka.



Participants in Engineering Alternative Spring Break 2011, above, pose at the Harley-Davidson facility, one stop of the four-day event.

IMPACT

Highlights from 2012

- ◆ The Raj and Diana Nathan Undergraduate Research Excellence Award has been established to provide financial assistance to undergraduate student research in the college while also providing a meaningful research experience for student awardees. Raj Nathan is a former industrial engineering professor in the college and his wife, Diana, is a 1983 industrial engineering graduate.
- ◆ New light pole banners have been designed and installed on the southeast plaza of the engineering complex to highlight the K-State engineering education experience with words and images.
- ◆ The National Science Foundation has awarded more than \$3M in funding to seven faculty members in computing and information sciences in support of projects that will help protect digital information and boost the nation's cybersecurity workforce.
- ◆ Recent additions and renovations celebrated in the college include a \$3M clean room facility in the S.M.A.R.T. Lab in Ward Hall, funded primarily by the Defense Threat Reduction Agency; nine renovated and nine new laboratories for chemical engineering in Durland Hall, funded primarily by a \$1.6M National Science Foundation grant; and a new Burns & McDonnell Smart Grid Lab for electrical and computer engineering in Rathbone Hall.
- ◆ Warren, EE '65, and Mary Lynn Staley have committed \$1M over the next 10 years to fund the Warren and Mary Lynn Staley Engineering Excellence Scholarship. The first 50 scholarships were awarded to four students studying abroad; and 21 new transfer students and 25 continuing students, both groups cited for academic excellence.



ASABE members prepare pancakes for their annual Open House event.



New lightpole banners were designed and installed on the southeast plaza of the engineering complex.



A team of engineering students won three of six first-place awards in the ASCE Charles Pankow Foundation Architectural Engineering Student Competition.



Mo Hosni, MNE, experienced sailing the sea in a submarine as part of educational trips for faculty sponsored by the U.S. Navy.



Two industrial engineering students study abroad in Istanbul.

IMPACT

Highlights from 2013

- ◆ Dean John English announced he will be leaving the college to become dean of the College of Engineering at the University of Arkansas. Gary Clark will serve as interim dean while a national search is underway for a new dean.
- ◆ “Wildcat Engineering — 150 Years of Impact” is the title of the college’s entry for the Wildcat March, a part of K-State’s 150th anniversary celebration. Jim, CNSM ’84, and Laura Johnson sponsored the fiberglass statue of the wildcat designed by a local artist.
- ◆ A ceremonial groundbreaking for the 107,000-square-foot addition to the engineering complex, Phase IV, was celebrated Oct. 25. The \$40 million project is slated to be completed by fall 2015.
- ◆ Civil engineering department head and founding director of the Urban Water Institute, Alok Bhandari, 44, died of cancer Jan. 30, 2013. Robert Stokes, civil engineering professor and director of the University Transportation Center, has been appointed interim department head.
- ◆ An April 19-20 weekend event, “Tradition of Excellence,” saw the biological and agricultural engineering department host alumni and guests for a combined celebration of the 150th anniversary of Kansas State University, the 100-year anniversary of agricultural and biological engineering and 50 years of the agricultural mechanics and technology management programs.



An employer chats with a student during a reception hosted by the Multicultural Engineering Program the evening before the 35th annual Engineering Career Fair.



Empowering Students to Impact Our Future — the 2013 theme of Engineering Open House — saw Friday mark traditional activities of the parade, skits, lighting of the torch, and crowning of St. Pat and St. Patricia.



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



Newly renovated engineering labs in the basement of Seaton Hall were occupied for use in the 2013 fall semester.

IMPACT

Highlights from 2014

- ◆ Darren Dawson became the 10th dean of the College of Engineering July 1, 2014. He had previously been professor and chair of the electrical and computer engineering department at Clemson University.
- ◆ Craig Wanklyn has been named assistant dean for recruitment. He replaces Tom Roberts who retired July 4 after 21 years of service to the college at that position.
- ◆ Following a competitive application process, eight students were chosen from across the college for a one-day trip to Dallas-Ft. Worth to take part in a next-generation leadership experience. The group toured the facilities and were guests of BNSF Railway as well as American Airlines.
- ◆ Two key areas of the Phase IV expansion have been named by alumni donors providing support for these new facilities — the Carl and Mary Ice Reception Center, and the Alan and Jan Levin Student Design Team Suite.
- ◆ Gurdip Singh, computing and information sciences professor and department head, has accepted a two-year assignment as program director with the National Science Foundation in Arlington, Virginia. Scott DeLoach, computing and information sciences professor, will serve as interim department head.



The new dean, Darren Dawson, gets to know engineering students.



Rachel Hinten, senior, ARE, acts as peer tutor for the Scholars Assisting Scholars program, with Austin Green, junior, CMPEN.



Engineering Ambassadors gather with Tom Roberts, center, who retired after 21 years of serving as assistant dean for recruitment and leadership development.



Faculty, staff and students gather to sign the final beam of the Phase IV expansion.

2015 to 2018



IMPACT

Highlights from 2015

- ◆ The College of Engineering had the highest increase in enrollment across campus with 3,666 undergraduate students — up from 3,503; 310 master's students — up from 292; and 175 doctoral students — up from 164.
- ◆ Fourteen new faculty members have joined the college in 2015: mechanical and nuclear engineering, five; civil engineering, chemical engineering, computing and information sciences, and industrial and manufacturing systems engineering, two each; architectural engineering and construction science, one.
- ◆ Progress continues on development and launching of two new programs for students: the Academic Success Center with mentors, advisers and training for academic and career success; and the Engineering Leadership and Innovation program with coursework, corporate partnerships and leadership experiences.
- ◆ Open House, for the first time, coincided with Engineering Day allowing area high school sophomores and juniors to be among the first to view departmental displays and team presentations. Another first was holding the event the same day as the spring College of Engineering Advisory Council meeting with members not only enjoying the departmental displays, but also serving as judges for the event.
- ◆ Gurpreet Singh, mechanical and nuclear engineering, received a \$500,000 National Science Foundation CAREER award for his work involving development of ultrathin metal sheets to help produce, among other things, better rechargeable batteries.



Members of the college's advisory council and college staff look at the progress of Phase IV.



IMSE presents a skit at Engineering Open House.



Engineering students spend winter break on a service-oriented trip.



Mary Ice sits in the driver's seat of the SAE Formula car.

IMPACT

Highlights from 2016

- ◆ Ribbon-cutting ceremonies for the official opening of Engineering Hall took place April 1, 2016.
- ◆ Larry Satzler, IE, M.S. '89, assistant dean for student services in the College of Engineering since 2007, died suddenly Dec. 5, 2015. Andy Fund, EE '05 and M.S. '15, assumed duties as the new assistant dean in this position on May 1.
- ◆ The college has introduced a new Faculty Development Initiative that will support outstanding faculty members through such programs as Cornerstone Teaching Scholars, Keystone Research Scholars and the Creative Inquiry Mentor program.
- ◆ Ronaldo Maghirang, biological and agricultural engineering, has been named associate dean for research and graduate programs in the college, effective Sept. 11. He replaces Noel Schulz who had previously held the position.
- ◆ Following a gift concept proposed by Steve Kirchhoff, ME '79, and supported by Wayne Harms, CHE '76, nine current and retired ExxonMobil employees pooled their resources to leverage the Educational Matching Gift Program of the ExxonMobil Foundation and named the ExxonMobil Computer Lab on the first floor of the newly completed Engineering Hall.



Participants take part in the ribbon-cutting ceremony for Engineering Hall.



Silhouetted against the second-floor Engineering Hall walkway, ribbon-cutting attendees enjoy the east view across the engineering plaza toward Seaton Hall.



The first cohort of students in the Engineering Leadership and Innovation Program begin fall meetings.



A panel of graduate student alumni now working in industry participate in a series of e-seminars for current students.



Students speak with employers at the Career Fair Recognition Banquet.

IMPACT

Highlights from 2017

- ◆ The Alan and Jan Levin Student Design Team Suite, located on the ground level of Engineering Hall, offers a designated space for student competition teams to work on engineering designs while also developing practical skills in leadership and collaboration.
- ◆ Richard Myers, ME '65, former chairman of the Joint Chiefs of Staff, was formally inaugurated as the 14th president of Kansas State University April 28 in McCain Auditorium.
- ◆ An award-winning group has a new name — the Helwig Farms Quarter-Scale Tractor Team is wearing its new title thanks to the generosity of Carl and Melinda Helwig, themselves former national-level competitors in tractor pulling. The A and X teams competed in the 2017 ASABE Quarter-Scale Tractor Competition and, for the 19th time in the past 20 years, brought home a top-three placing in the event.
- ◆ The College of Engineering will add biomedical engineering as its 11th Bachelor of Science degree program, offered through the electrical and computer engineering department, beginning in fall 2018.
- ◆ Ray Buyle has been named department head of architectural engineering and construction science, and Mustaque Hossain has been named interim department head of civil engineering.



ECE students study sleep patterns in a biomedical lab.



Competition teams work on projects in the Alan and Jan Levin Student Design Team Suite.



The Wareham marquee welcomes Seaton Society attendees.



Students and mentors participate in the inaugural Engineering Leadership and Innovation Program Day.

IMPACT

Highlights from 2018

- ◆ With gifts totaling \$22 million to create three named areas of the College of Engineering, Ike, EE '65, and Letty Evans have named the Ike and Letty Evans Academic Success Center; Tim, CHE '75, and Sharon Taylor have named the Tim Taylor Department of Chemical Engineering; and Jim, CNS '84, and Laura Johnson have established the GE Johnson Department of Architectural Engineering and Construction Science in honor of Jim's father, Gil, CE '55.
- ◆ A majority of students in each of the college's eight departments have said yes to a proposal that would add \$15 per credit hour to their fees. More than two-thirds of the student body participated in the voting process with the yes votes out-numbering the no votes by a two-to-one margin.
- ◆ A five-year goal of growing named faculty positions from 29 to 40 has been met by attaining a total of 71 positions in the college at the end of year four.
- ◆ In a five-year goal of growing the number of students involved in undergraduate research and creative inquiry teams from 250 to 400, at the close of year four, the college boasts 911 participants annually.
- ◆ The power and energy systems group in the electrical and computer engineering department, encompassing power grids, power electronics and smart energy systems, offers one of the Midwest's leading undergraduate and graduate academic programs in electrical engineering.



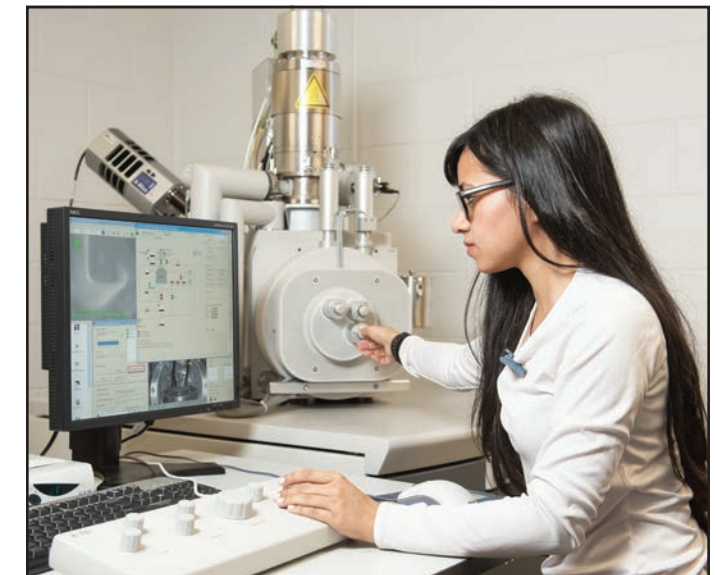
Seaton Society attendees pose for photos with Willie during the cocktail hour.



Members of "Live Circuit" perform at the Cat Town alumni event Oct. 13, a part of K-State's 2018 homecoming festivities.

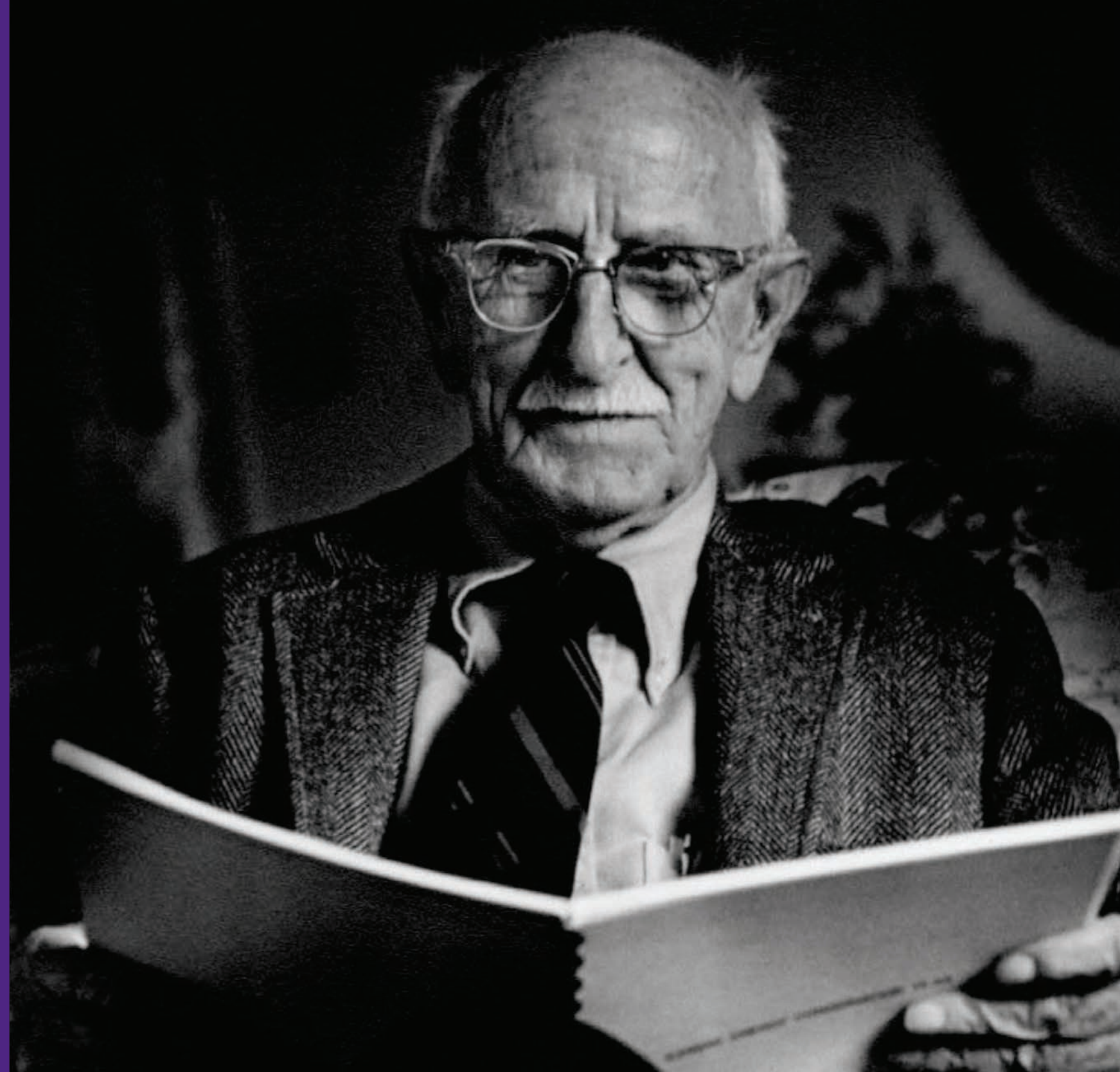


Cassidy Harper — Engineering Leadership and Innovation scholar — addresses the College of Engineering Advisory Council.



A nuclear engineering student works with equipment in a recently remodeled lab in Ward Hall.

Engineering Deans
1908 to 2019



Edmund B. McCormick

1908-1913



K-State's first dean of engineering, then called mechanic arts, was Edmund B. McCormick, a native of Normal, Illinois. He graduated from Illinois State Normal University in 1889 and began his career as a machinist with the C & A Railroad. After working for a few years, he decided to return to school, this time opting for the Massachusetts Institute of Technology where he earned a degree in mechanical engineering in 1897.

Upon graduation he took a post as an instructor at Montana State College. He was promoted to assistant professor the following year. McCormick moved to Kansas as a professor of mechanical engineering in 1901. He stayed with K-State until 1913, the last five years as dean. He was largely responsible for developing much of the curricula

in the engineering division and developed the idea for the Engineering Experiment Station. When he convinced the administration to approve the experiment station, he became director in addition to his work as dean.

He left Kansas to work as a consulting engineer for the U.S. Department of Agriculture, ultimately moving to Alameda, California, as chief of the equipment division for the USDA's Bureau of Public Roads. He was a consulting editor for the Agricultural Engineering Series published by McGraw-Hill Book Company.

Andrey A. Potter

1913-1920



Andrey A. Potter was born in Vilna, Russia, in 1882. Dreaming of a future in America, he came to the United States as a teenager in 1897 and became a citizen in 1906. He earned a bachelor's degree from the Massachusetts Institute of Technology and was awarded 10 honorary doctoral degrees during his long career. After graduation he worked for the General Electric Co. before taking a teaching post at K-State. He was presented the prestigious Lamme Medal in 1940, in recognition of his contributions to engineering education. In 1943, the Western Society of Engineers presented him with the Washington Award for distinguished leadership in engineering education and research, and patriotic service in mobilizing technical knowledge for victory in war and peace. He was presented the McCormick

Medal for contributions to agricultural engineering. His text, *Steam and Gas Power Engineering*, written with J. P. Calderwood, K-State professor of mechanical engineering, was published four months prior to Potter's move to Purdue. The same year, *Elements of Engineering Thermodynamics*, co-authored with Calderwood and James S. Moyer, was published. Potter also was the author of *Farm Motors*, published in 1913.

After his formal retirement from Purdue in 1953, he made himself available for consultation. He continued as president of the Bituminous Coal Research, an industrial organization, until 1960. He was known affectionately as the "Dean of the Deans of Engineering Universities."

Roy A. Seaton

1920-1949



Associated with the university over a longer period of time than all but one other individual, Roy A. Seaton came to be thought of as “Mr. K-State Engineering.” Seaton studied engineering at K-State, the University of Wisconsin and Massachusetts Institute of Technology (MIT). He held bachelor’s and master’s degrees from K-State, the S.B. degree from MIT and an honorary Doctor of Science from Northeastern University, Boston. After graduation in 1904, Seaton joined the K-State faculty as an assistant in mathematics and advanced to become dean of engineering in 1920.

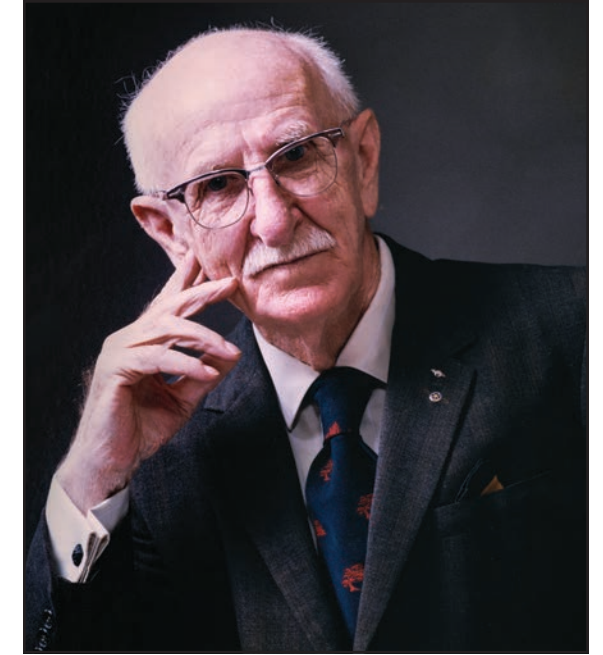
He retired from administrative duties in 1949 at age 65 but continued to serve as building expediter until 1954. His career spanned half a decade as a K-State educator. When he retired from K-State in

1954, Seaton was tapped as academic director for the U.S. Air Force Institute of Technology at Wright-Patterson Air Force Base near Dayton, Ohio. He was in charge of organizing and directing undergraduate and graduate technical programs for the Air Force.

Seaton was a national president of the Society for the Promotion of Engineering Education, later known as the American Society for Engineering Education. He was awarded the Lamme Medal in 1942 in recognition of his contributions to war training during World War II. He was a director of the National Council of State Boards of Engineering Examiners and served for nearly a quarter of a century as chairman of the Kansas Registration Board for Professional Engineers. He also had been president of the Kansas Engineering Society.

M.A. Durland

1949-1961



M.A. Durland enrolled at K-State in 1914 in electrical engineering, earning a bachelor’s and two master’s degrees. He was number one in his 1918 graduating class, graduating with honors. World War I was in progress and he was whisked off to France with the Army Corps of Engineers. After a year of service, he returned to campus for advice on where to look for employment. He began teaching drawing in Professor Seaton’s machine design department and was gradually promoted up the ranks. In 1923, as an assistant professor, he was asked to move into the dean’s office half-time to take charge of student personnel work for Dean Seaton. He continued that facet of his career until becoming dean in 1949.

From 1949-61, Durland was dean and also director of the Engineering Experiment Station. He retired

as dean but returned to the faculty as a professor until his retirement in 1967. Known to many as “Cotton,” Durland picked up that name as a student because of his white hair. During his tenure as dean, two major additions were made to Seaton Hall and two new departments, nuclear and industrial engineering, were added.

Durland established the College of Engineering Advisory Council composed of Midwestern leaders in engineering, education and industry to review and advise on instruction, research and new programs at K-State. He continued to serve on the advisory council even after his retirement.

Paul E. Russell

1963-1967



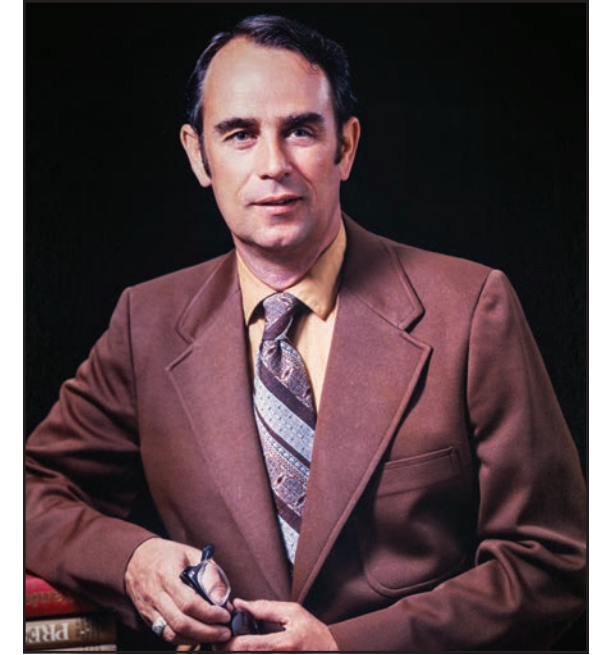
Paul E. Russell was dean of the College of Engineering from 1963-67. After serving in the Signal Corps in the Philippines and Japan for the U.S. Army during World War II, he earned bachelor's degrees in electrical engineering and mechanical engineering from New Mexico State University, then master's and doctoral degrees in electrical engineering from the University of Wisconsin.

Russell retired as a professor of electrical engineering at Arizona State University, having previously served as head of the department of electrical engineering at the University of Arizona, program director for applied science, engineering and technology for the west campus of Arizona State and director of the School of Construction and Technology there. He worked as a design specialist and consultant for

General Dynamics and various other companies in the U.S. and worldwide, served as vice chairman and chairman of the Engineering Accreditation Commission for the Accreditation Board for Engineering and Technology and helped establish engineering programs in various countries. He was also a fellow with the Institute of Electrical and Electronics Engineers, a member of numerous honorary and fraternal societies and a recipient of many academic and professional awards.

Ralph G. Nevins

1967-1973



Ralph G. Nevins was appointed dean of the College of Engineering at Kansas State University in 1967. He had earned a doctorate in mechanical engineering in 1953 from the University of Illinois and had come to K-State in 1957 as professor and head of the department of mechanical engineering. He received international recognition for his work in environmental engineering, and in 1962, assumed the directorship of the endowed K-State Institute for Environmental Research. In his specialty, he was engaged as a consultant to industry and agencies of the federal government.

Nevins was the author of numerous publications and served in many public and professional offices with the American Society of Mechanical Engineers; American Society for Engineering Education;

Engineers' Council for Professional Development; American Society of Heating, Refrigerating, and Air-Conditioning Engineers; National Society of Professional Engineers and others. He was a recipient of the University of Illinois College of Engineering Distinguished Alumni Award for his contributions and leadership in applying administrative and engineering skills in mechanical engineering, education and research.

Donald E. Rathbone

1973–1997



Donald E. Rathbone, dean of the College of Engineering, also held the LeRoy C. and Aileen H. Paslay endowed chair. He received his bachelor's degree from Purdue University, master's degree from Northwestern University and doctoral degree from the University of Pittsburgh, all in electrical engineering.

He taught at the University of Pittsburgh, University of Idaho, Northwestern University and K-State. He worked for the Westinghouse Electric Corporation and served as a consultant to numerous industrial firms and government agencies including the National Academy of Sciences.

Rathbone was national chair of the Professional Engineers in Education and vice-president of the National Society of Professional Engineers. He is

a distinguished alumnus from the University of Pittsburgh and Montana State University and is a member of the College of Engineering Hall of Fame at K-State.

Major accomplishments of the college during his tenure as dean were establishment of national Centers of Excellence such as the EPA Hazardous Substance Research Center, Advanced Manufacturing Institute and National Gas Machinery Laboratory. He secured more than \$5 million of private funds matched by state funds to build Phase III of the engineering complex, which included a state-of-the-art engineering library as part of the \$11 million building addition, Fiedler Hall. Phase II of the engineering complex is named for him.

Terry S. King

1997–2006



Terry S. King served nine years as dean of the College of Engineering at Kansas State University, previously holding a variety of university and private positions including chair of the chemical engineering department at Iowa State University and senior research engineer at Exxon Chemical Company in Baton Rouge, Louisiana. He served as a director of NanoScale Materials Inc., published more than 60 peer-reviewed articles and one book chapter, and holds three patents. His professional affiliations include the American Institute of Chemical Engineers, American Chemical Society and North American Catalysis Society.

King earned a bachelor's degree in chemical engineering from Iowa State University and a doctoral degree in chemical engineering from the

Massachusetts Institute of Technology. He received grants primarily from the U.S. Department of Energy and the National Science Foundation. He supervised seven master's students, 12 doctoral students, seven post-doctoral associates and two visiting scientists.

Following his time at K-State, King was hired by Ball State University as provost and vice president for academic affairs. Following the sudden resignation of Ball State's president, King was asked to step into that role and recently retired as interim president of Ball State.

John R. English

2007-2013



John R. English, dean of the K-State College of Engineering, held the LeRoy C. and Aileen H. Paslay Chair from 2007-13. Under his leadership, the college promoted and expanded its research venues and experienced increases in both private giving and research funding. English holds a doctorate in industrial engineering and management from Oklahoma State University. He received a bachelor's degree in electrical engineering and a master's degree in operations research from the University of Arkansas.

A respected expert on quality and reliability engineering, English is currently dean of the University of Arkansas College of Engineering where he was a faculty member in the department of industrial engineering from 1991 to 2007, as well

as head of the department from 2000-07. He was founding director of the University of Arkansas Center for Engineering Logistics and Distribution and has served as director of the GENESIS Technology Business Incubator. He was also on the faculty at Texas A&M University, taught at Oklahoma State University and gained industry experience at AT&T Communications.

English has been active on the national level in shaping the future of engineering education, participating in significant committees for the Institute of Industrial Engineers and serving as a member of the board of directors for the Reliability and Maintainability Symposium. He also holds the membership level of fellow in the Institute of Industrial Engineers.

Darren M. Dawson

2014-present



Darren M. Dawson was named dean of engineering at Kansas State University in July 2014. Prior to this, he had been chair of the Holcombe Department of Electrical and Computer Engineering at Clemson University from 2007-14, where he also held the McQueen Quattlebaum Professorship. From 1990 to 2007, he served as a faculty member at Clemson and as a graduate coordinator from 2005-07.

He received his doctoral degree in electrical engineering from the Georgia Institute of Technology in 1990 and his bachelor's degree in electrical engineering from the Georgia Institute of Technology in 1984. From 1985-87, he worked for Westinghouse as a control engineer at Bettis Atomic Power Laboratory.

Dawson developed solutions for open problems associated with important and/or benchmark nonlinear control applications in motion control, motor control, robotics and mechanical system control. A hallmark of his work was implementation and validation of controllers for a variety of electromechanical systems. His research activities led to eight books, more than 500 publications, more than 12,000 citations, 34 Ph.D. dissertations, 53 master's theses and \$20M of funded activity as PI or co-PI.

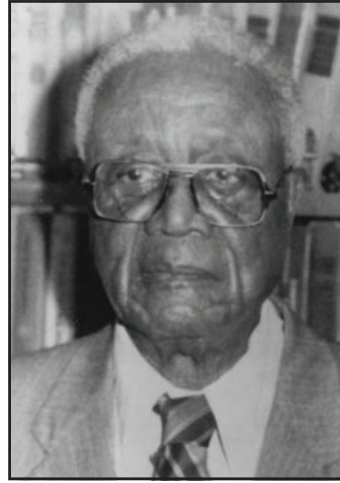
Dawson has been highly recognized with the NCR Undergraduate Teaching Award, Office of Naval Research Young Investigator Award, National Science Foundation Young Investigator Award, Centennial Professorship, Murray Stokely Award for Excellence in Teaching and the Collaborative Research Award.

Hall of Fame
1989 to 2019





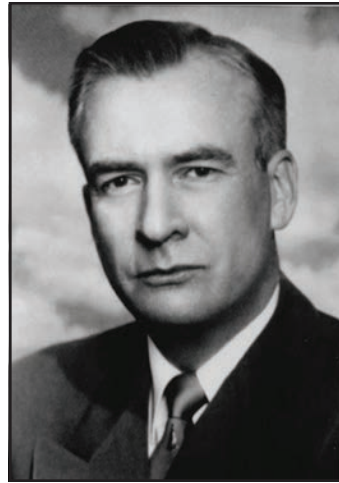
George V. Mueller
ME '24, EE '25
Hall of Fame Class of 1989



Claude L. Wilson
ME '25, M.S. '33
Hall of Fame Class of 1989



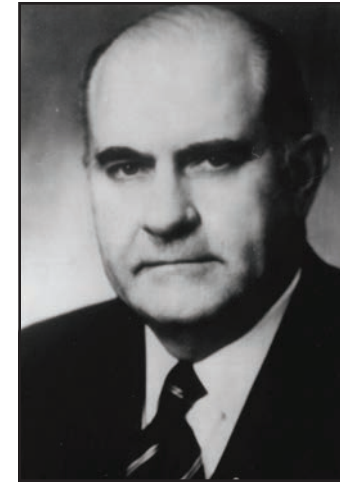
Roy A. Bainer
AGE '26, M.S. '29
Hall of Fame Class of 1989



George J. Fiedler
EE '26
Hall of Fame Class of 1989



Joel P. Kesler
EE '33
Hall of Fame Class of 1989



Eugene Peltier
CE '33
Hall of Fame Class of 1989



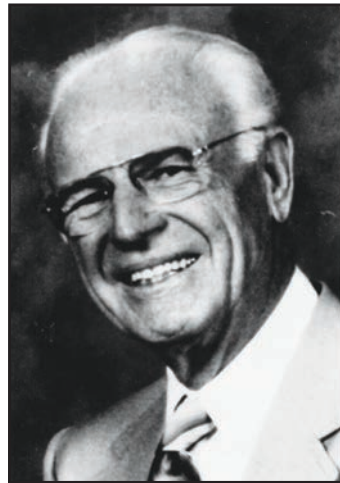
William C. Higdon
ME '34
Hall of Fame Class of 1990



Virgil F. Lundberg
EE '34
Hall of Fame Class of 1989



Martin K. Eby Sr.
CE '29
Hall of Fame Class of 1989



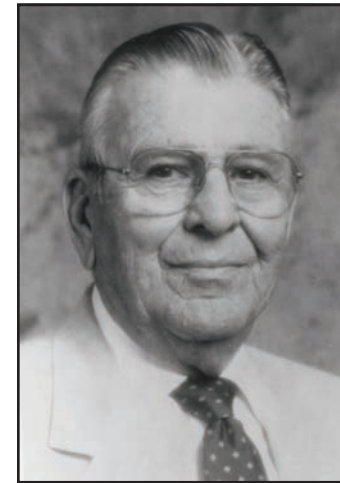
LeRoy C. Paslay
EE '30, M.S. '34
Hall of Fame Class of 1989



Walter R. Mitchell
EE '32
Hall of Fame Class of 1989



Donald Christy
AGE '33
Hall of Fame Class of 1989



James C. Richards
CHE '34
Hall of Fame Class of 1989



Fred J. Benson
CE '35
Hall of Fame Class of 1989



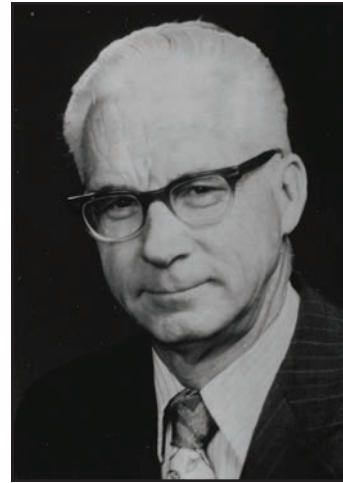
John W. Frazier
CE '35
Hall of Fame Class of 1989



Ben Sellers
CE '35
Hall of Fame Class of 1989



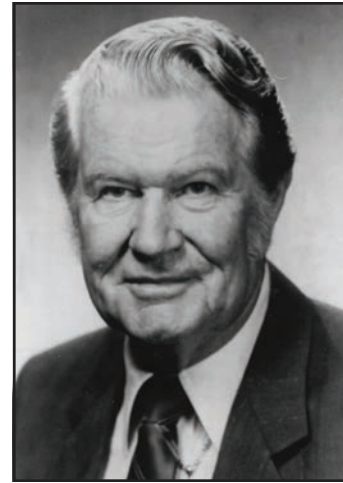
Alvin J. Mistler
GEOL '36
Hall of Fame Class of 1989



Alwin H. Rector
EE '37
Hall of Fame Class of 1989



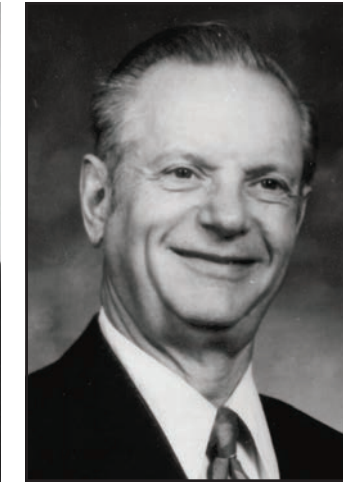
Charles T. Carter
ME '38
Hall of Fame Class of 1989



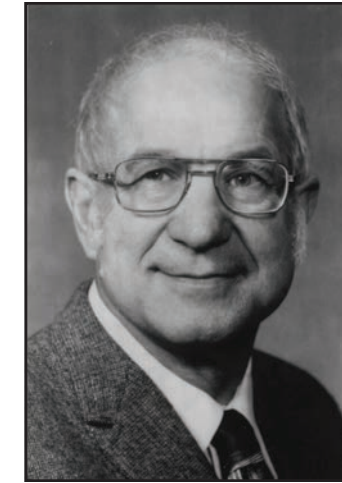
Clifford R. Krabbenhoft
CE '38
Hall of Fame Class of 1989



Alexander R. Geldhof
EE '41
Hall of Fame Class of 1989



Benson Floyd Bachus
ME '42
Hall of Fame Class of 1995



Phillip S. Myers
ME '42
Hall of Fame Class of 1989



Edward J. King Jr.
EE '43
Hall of Fame Class of 1989



Loyal M. Van Doren
CE '38
Hall of Fame Class of 1989



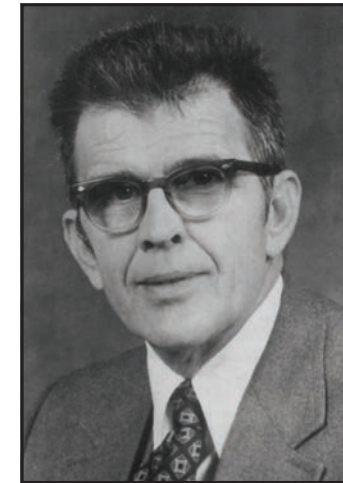
William H. Honstead
CHE '39, M.S. '46
Hall of Fame Class of 1990



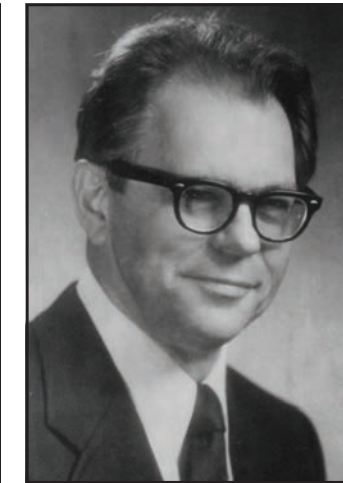
Bruce E. Roberts
CE '39
Hall of Fame Class of 1989



Gustave E. Fairbanks
AGE '41, M.S. '50
Hall of Fame Class of 1989



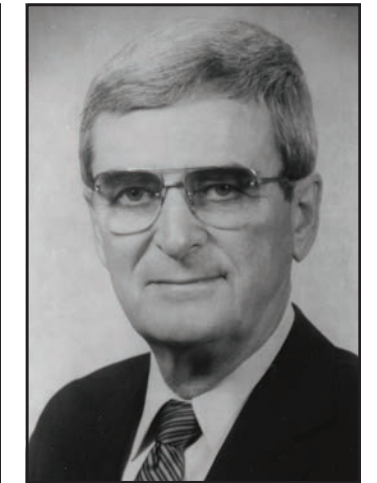
Charles V. Jakowatz
EE '44, M.S. '47
Hall of Fame Class of 1989



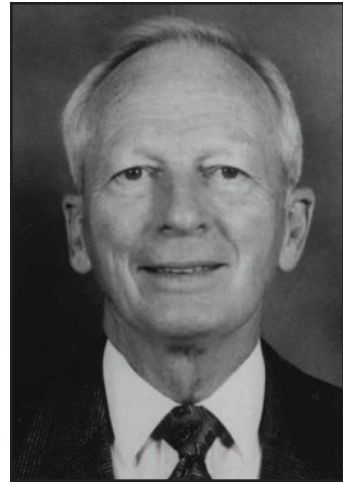
William R. Kimel
ME '44, M.S. '49
Hall of Fame Class of 1989



Gordon D. Goering
CHE '45
Hall of Fame Class of 1989



Raymond A. Adee
ME '47
Hall of Fame Class of 1989



L. Bruce Johnson
EE '47
Hall of Fame Class of 1991



Ernest O. Nelson
CE '47
Hall of Fame Class of 1989



H.L. (Hal) Siegele
CHE '47
Hall of Fame Class of 1989



Lloyd T. Smith
ME '47
Hall of Fame Class of 1989



William E. Clarkson
CE '49
Hall of Fame Class of 2005



Carl M. Coonrod
ARE '49
Hall of Fame Class of 1991



Joseph F. Allison
CHE '50
Hall of Fame Class of 1990



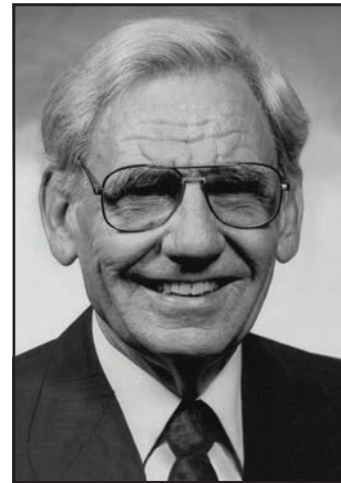
Gerald G. Auerbach
ME '50
Hall of Fame Class of 1992



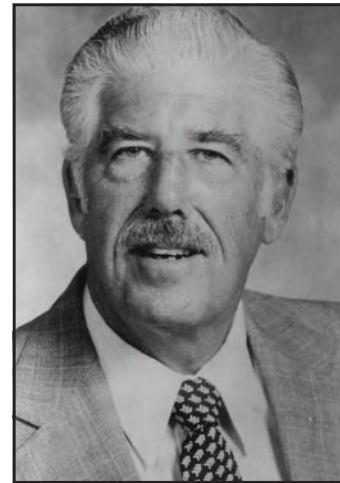
Irvin S. Barnett
CE '48
Hall of Fame Class of 1992



Mark H. Hulings
ME '48
Hall of Fame Class of 1990



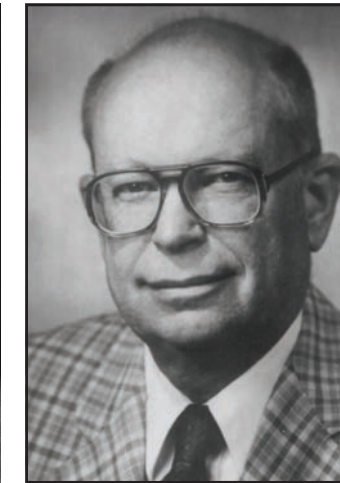
William H. Johnson
AGE '48
Ohio State University
Hall of Fame Class of 1992



John W. Shupe
ME '48
Hall of Fame Class of 1989



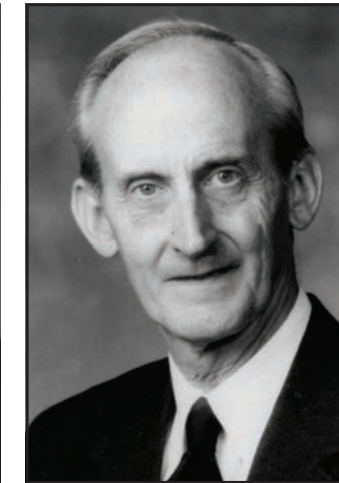
Donald R. Chestnut
EE '50
Hall of Fame Class of 1989



Eugene L. Fieldhammer
CE '50
Hall of Fame Class of 1990



William I. Owen
EE '50
Hall of Fame Class of 1996



Robert B. Thorn
CE '50
Hall of Fame Class of 1998



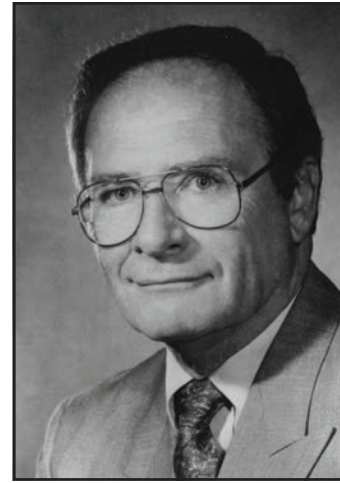
David Dean Kays
AGE '51
Hall of Fame Class of 1999



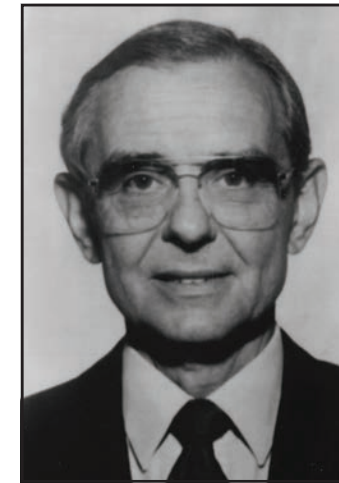
Donald E. Rathbone
EE '51
Purdue University
Hall of Fame Class of 1995



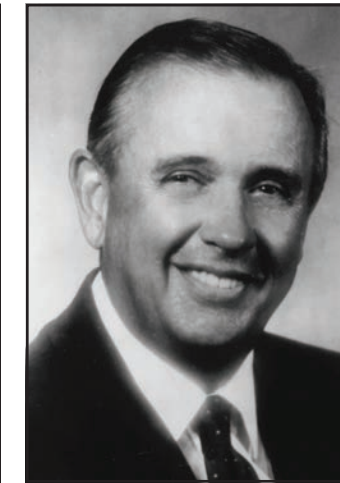
Richard D. Scherer
EE '52
Oklahoma State
Hall of Fame Class of 1990



Austin W. Stedham
EE '52
Hall of Fame Class of 1989



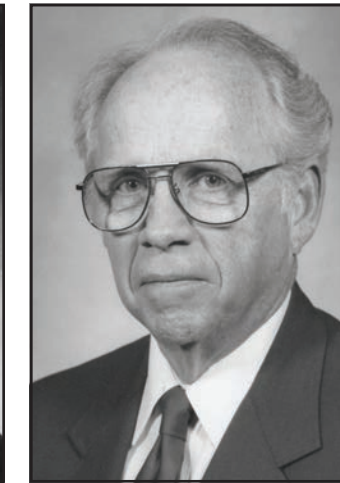
Kenneth R. Collins
ME '54
Hall of Fame Class of 1989



Stuart B. Hartman
CHE '54
Hall of Fame Class of 1989



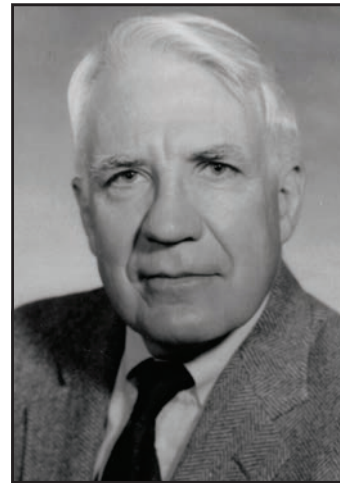
Dean O. Morton
EE '54
Hall of Fame Class of 1989



Robert R. Snell
CE '54, M.S. '60
Hall of Fame Class of 2000



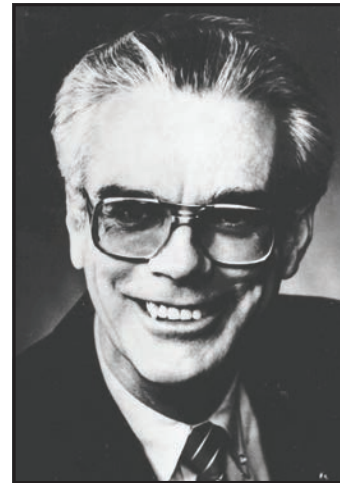
Tom H. Barrett
CHE '53
Hall of Fame Class of 1989



Mark K. Enns
EE '53
Hall of Fame Class of 1994



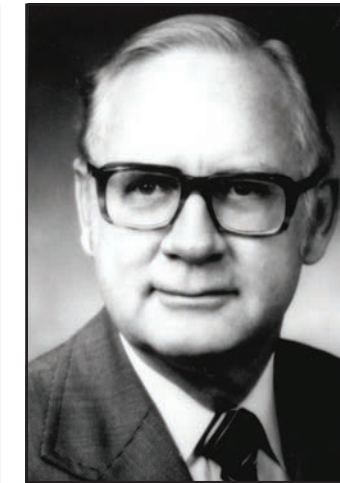
Carl E. Nuzman
AGE '53
Hall of Fame Class of 2003



David C. Ayers
EE '54
Hall of Fame Class of 1989



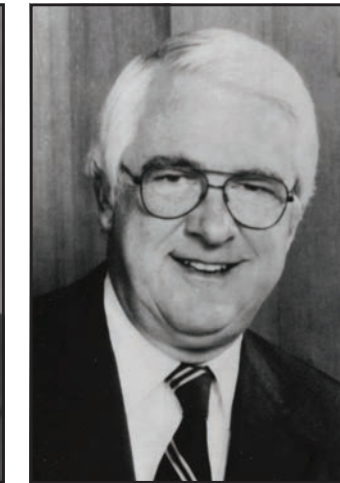
Virgil H. Snell
ARE '54
Hall of Fame Class of 1989



A.R. (Jack) Way
ARE '54
Hall of Fame Class of 1989



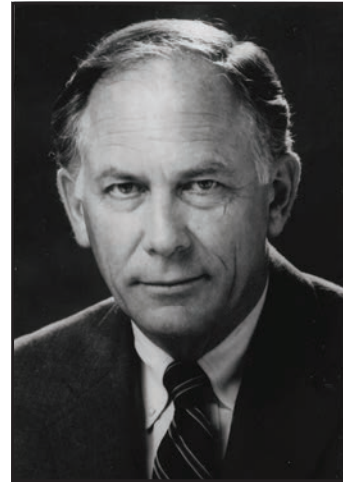
Kenneth K. Gowdy
ME '55, M.S. '61
Hall of Fame Class of 1997



Gilbert E. Johnson
CE '55
Hall of Fame Class of 1989



Donald G. Prigmore
CE '55
Hall of Fame Class of 1989



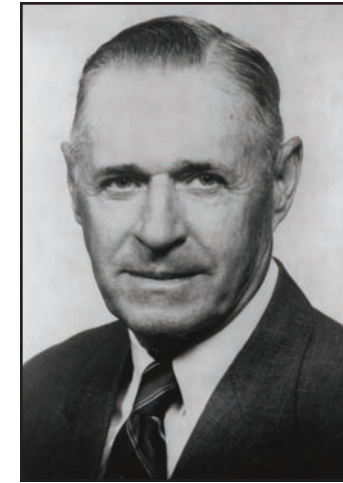
Robert G. Tointon
CE '55
Hall of Fame Class of 1989



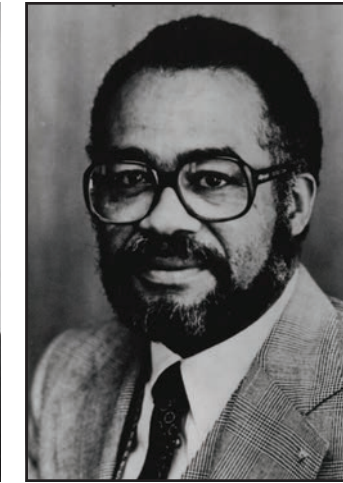
Neil R. Vander Dussen
EE '55
Hall of Fame Class of 1990



John A. Weese
ME '55
Hall of Fame Class of 1990



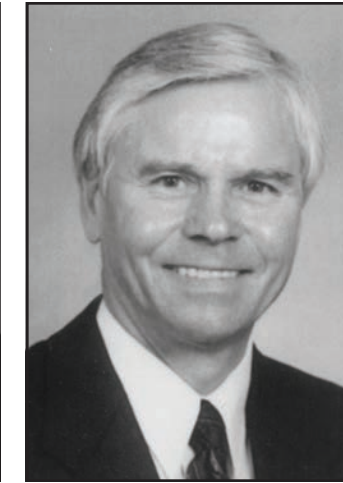
Harold G. Lonsinger
ME '56
Hall of Fame Class of 1989



John B. Slaughter
EE '56
Hall of Fame Class of 1989



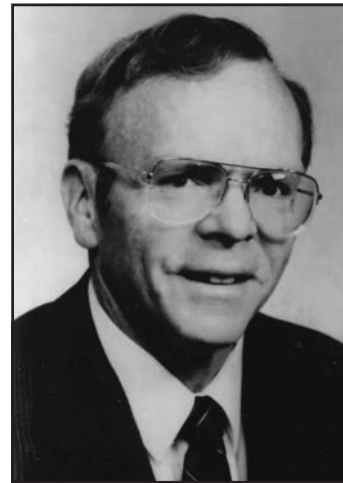
Larry F. Burdge
ME '58
Hall of Fame Class of 1993



Richard W. Corbin
CHE '59
Hall of Fame Class of 1998



Roger W. Dutton
ME '56
Hall of Fame Class of 1993



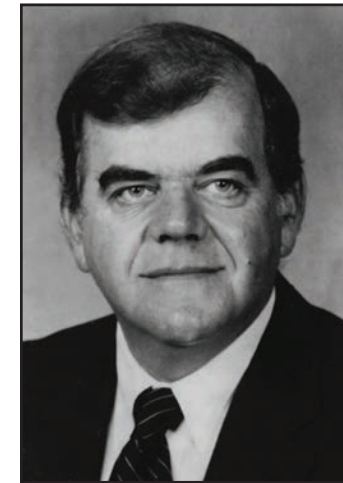
Martin K. Eby Jr.
CE '56
Hall of Fame Class of 1989



Robert W. Exline
IE '56
Hall of Fame Class of 1989



Donald Lenhert
EE '56
Hall of Fame Class of 2010



Joseph L. Downey
CHE '59
Hall of Fame Class of 1989



Darrell M. Hosler
ME '59
Hall of Fame Class of 1989



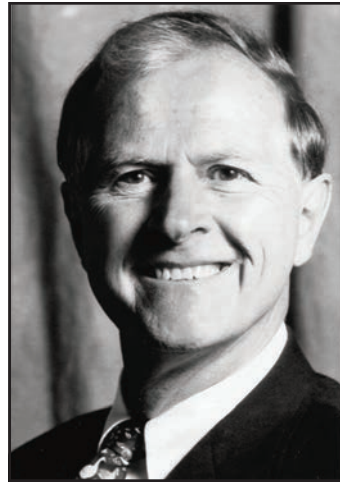
Steve G.K. Hsu
ME M.S. '59
Hall of Fame Class of 2019



Edward J. Mulcahy
CE '59
Hall of Fame Class of 1996



Gerald T. Oppliger
ME '59
Hall of Fame Class of 1992



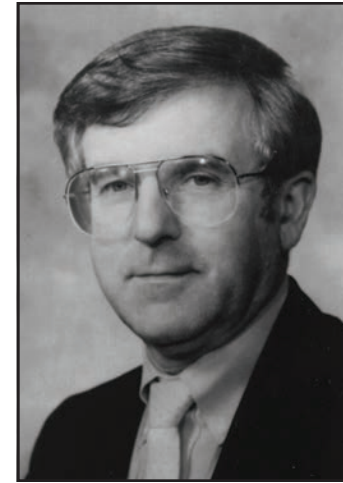
Robert H. Smith
CHE '59
Hall of Fame Class of 2000



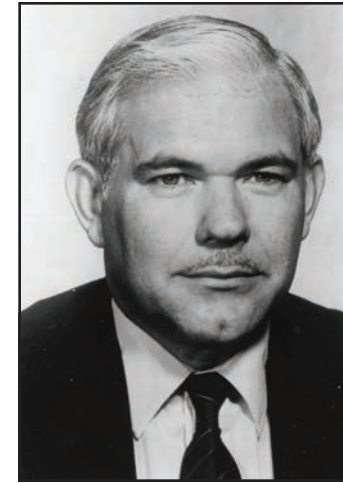
Larry R. Foulke
NE '60, M.S. '61
Hall of Fame Class of 2003



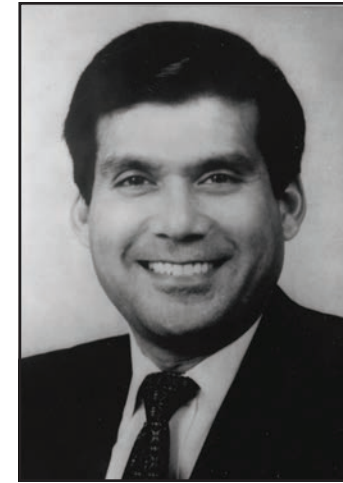
James R. Grier III
CE '60
Hall of Fame Class of 1993



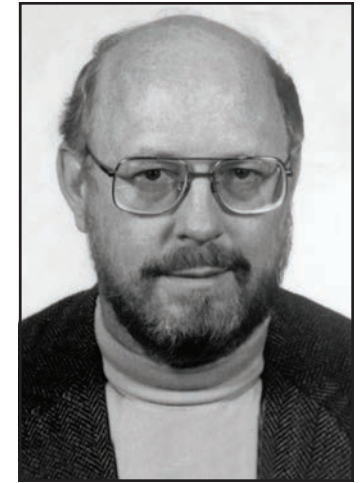
John W. Walters
EE '60
Hall of Fame Class of 1989



Karl K. Stevens
ME '61
Hall of Fame Class of 1989



Chance Bahadur
NE '62
Hall of Fame Class of 1990



James D. Callen
NE '62, M.S. '64
Hall of Fame Class of 1991



Gary E. Luck
IE '60
Hall of Fame Class of 1991



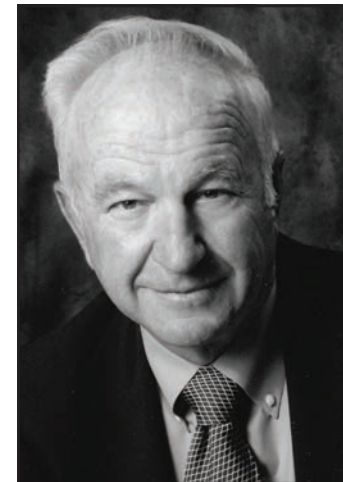
Ronald J. Minarcini
CE '60, M.S. '61
Hall of Fame Class of 2001



George Rhea Serpan
EE '60
Hall of Fame Class of 1989



Frank A. Tillman
IE '60
University of Missouri
Hall of Fame Class of 1999



Edwin F. Wambsganss
CE '62
Hall of Fame Class of 2005



Jarold W. Boettcher
NE '63
Hall of Fame Class of 1995



L. Stuart Curtis
IE '63, M.S. '65
Hall of Fame Class of 2002



Gary W. Edwards
CE '63
Hall of Fame Class of 1989



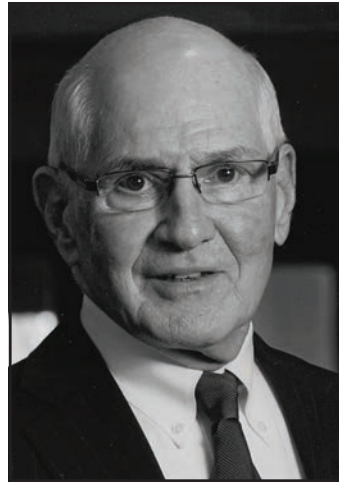
Robert W. Kever
CE '63
Hall of Fame Class of 1992



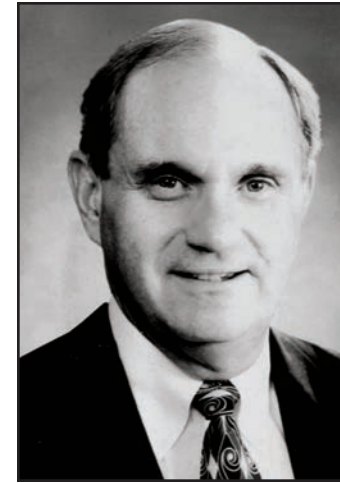
William M. Lackey
CE '63, M.S. '75
Hall of Fame Class of 1989



Thomas E. Mistler
NE '63, M.S. '66
Hall of Fame Class of 2004



Jim Schroeder
EE '63
Hall of Fame Class of 2015



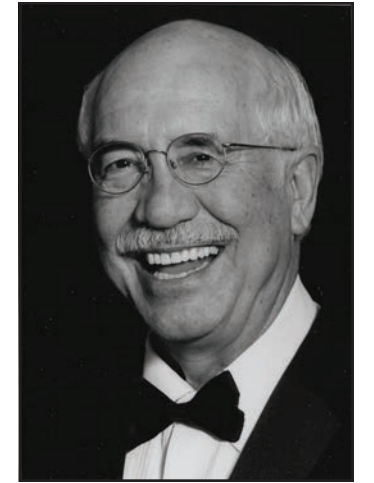
Arnold A. Allemang
CH '65
Sam Houston State
Hall of Fame Class of 2000



Richard L. Donaldson
EE '65
Hall of Fame Class of 2001



Ivor J. Evans
EE '65
Hall of Fame Class of 1999



James R. Jaax
ME '65, M.S. '67
Hall of Fame Class of 2012



Herbert N. Whitney
CE '63
Hall of Fame Class of 1993



Dixon R. Doll
EE '64
Hall of Fame Class of 2005



Robert C. Iotti
NE '64, M.S. '67, Ph.D. '70
Hall of Fame Class of 2007



Richard M. Kerschen
CE '64
Hall of Fame Class of 1989



Gen. Richard B. Myers
ME '65
Hall of Fame Class of 1994



Warren R. Staley
EE '65
Hall of Fame Class of 1997



Vernon M. Wegerer
EE '65
Hall of Fame Class of 2002



Arden J. Bradshaw
EE '66
Hall of Fame Class of 2002



Glen Fountain
EE '65, M.S. '66
Hall of Fame Class of 2016



Harlan D. Stauffer
CE '66
Hall of Fame Class of 1990



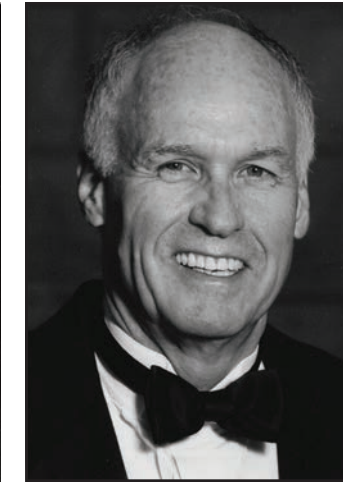
James L. Tadtman
CE '67
Hall of Fame Class of 2006



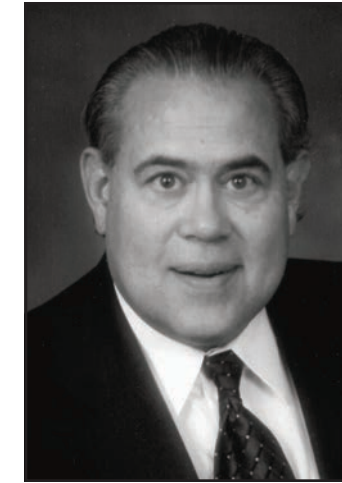
Gary L. Johnston
IE '68
Hall of Fame Class of 2004



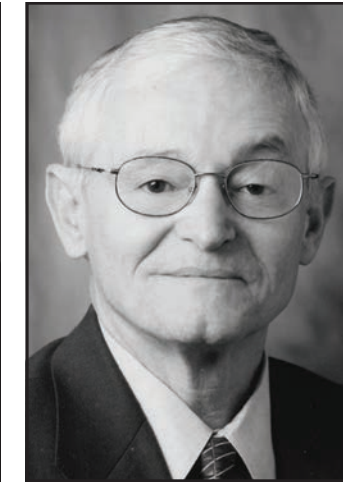
Joe E. Farrar
ME '70
Hall of Fame Class of 2007



Douglas G. Smith
CE '71
Hall of Fame Class of 2012



Charles A. Stryker
CE '71
Hall of Fame Class of 2003



Stephen L. Berland
CE '72
Hall of Fame Class of 2007



Warren Kent Wray
CE '68
Hall of Fame Class of 2009



Robert C. Davis
IE '69
Hall of Fame Class of 2003



Alan F. Kessler
AGE '69
Hall of Fame Class of 1997



Alan Levin
ME '69
Hall of Fame Class of 2014



Larry J. Engelken
EE '72
Hall of Fame Class of 2006



Laree A. Mugler
ME '72
Hall of Fame Class of 1994



Walter F. Robinson
CS '72
Hall of Fame Class of 2006



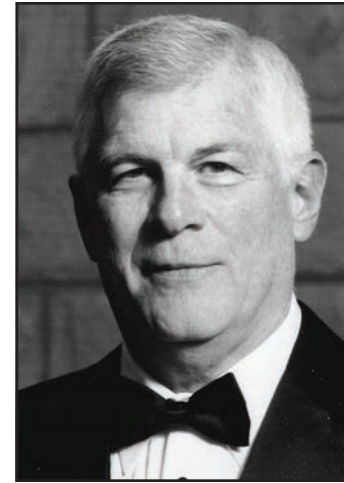
Kuo-Ming Wang
IE M.S. '72, Ph.D. '75
Hall of Fame Class of 1999



Chuck Grier
CNS '73
Hall of Fame Class of 2015



Charles M. Manley
EE '73
Hall of Fame Class of 2001



Tom Paulson
CE '73
Hall of Fame Class of 2013



Thomas M. Trent
EE '73
Hall of Fame Class of 1997



Steven M. Theede
ME '74
Hall of Fame Class of 2004



Roger Farrell
CE '75
Hall of Fame Class of 2019



David C. Everitt
IE '75
Hall of Fame Class of 2006



Donna D. Kottwitz
CHE '75
Hall of Fame Class of 2001



Terry R. Weaver
EE '73
Hall of Fame Class of 2003



Randall R. Coonrod
CE '74
Hall of Fame Class of 2002



James Michael Duncan, M.D.
NE '74
Hall of Fame Class of 2013



Fred Stiers
CE '74
Hall of Fame Class of 2016



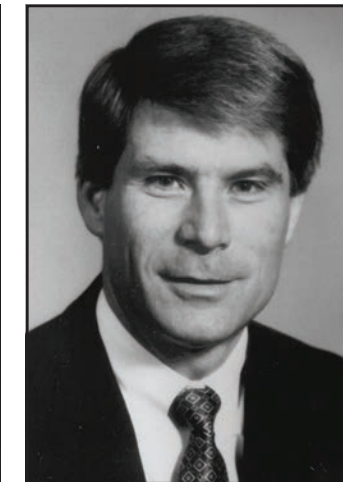
George "Bud" Peterson
ME '75, IE M.S. '80
Hall of Fame Class of 2003



Cathy S. Ritter
CE '75
Hall of Fame Class of 2006



Alan L. Sylvester
CE '75
Hall of Fame Class of 2018



Timothy G. Taylor
CHE '75
Hall of Fame Class of 1998



Wayne A. Harms
CHE '76
Hall of Fame Class of 2004



Mark Hutton
CNS '77
Hall of Fame Class of 2013



Susan K. Buchanan
CIS '78
Hall of Fame Class of 2003



Donovan J. Nickel
EE '78, M.S. '79
Hall of Fame Class of 2007



Gib Compton
CNS '80
Hall of Fame Class of 2019



Way Kuo
IE M.S. '78, Ph.D. '80
Hall of Fame Class of 2001



Larry M. Strecker
IE '80
Hall of Fame Class of 2004



Susan P. Barsamian
EE '81
Hall of Fame Class of 2005



Greg A. Tucker
ME '78
Hall of Fame Class of 2005



Carl R. Ice
IE '79
Hall of Fame Class of 2005



N.K. Anand
ME M.S. '80
Hall of Fame Class of 2011



Nadalie S. Bosse
IE '80
Hall of Fame Class of 2004



Susan C. Tholstrup
CHE '81
Hall of Fame Class of 2007



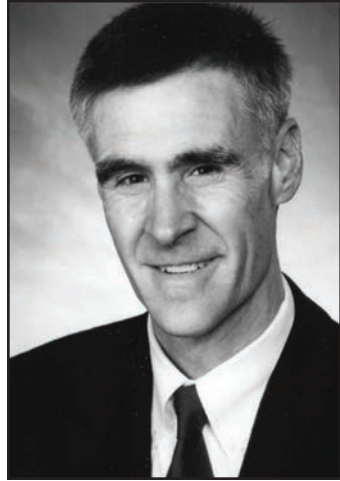
Neera Singh
CHE M.S. '83
Hall of Fame Class of 2001



Mitch Snyder
EE '83
Hall of Fame Class of 2017



Lewis Von Thaeer
EE '83
Hall of Fame Class of 2010



James M. Johnson
CNS '84
Hall of Fame Class of 2011



M.A. "Meg" Yaeger
ME '79, M.S. '84
Hall of Fame Class of 2017



Doug R. Sterbenz
ME '85
Hall of Fame Class of 2018



LTG Robert L. Caslen Jr.
IE M.S. '89
Hall of Fame Class of 2014

*We hope you enjoyed this journey
through the last half-century of K-State
engineering. The growth and success of
the college was made possible through
your generosity and support.*