

# IMPACT

Kansas State University College of Engineering

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## Newest Fiedler gift expands library project



Alice Fiedler

Alice Fiedler, St. Petersburg, Fl., who last September committed \$1.4 million to establish an engineering library at Kansas State University, has given an additional \$600,000 to the KSU Foundation to expand the project. The gifts will allow the KSU College of Engineering to create a research and

teaching undergraduate library.

"Alice Fiedler's generosity will allow our College of Engineering to have an outstanding state-of-the-art library," said Don Rathbone, dean of the college. "The library will supplement our excellent academic programs and help us to better educate our undergraduates. We are eternally grateful to Mrs. Fiedler for her generosity."

Fiedler previously gave \$500,000 to create an endowed engineering professorship. The gifts have created trusts with the KSU Foundation, the university's fund raising arm.

The gifts are memorials to Mrs. Fiedler's husband, a K-State engineering graduate. George Fiedler, a

Bushton, Ks., native, died in 1988. He specialized in the design of instrumentation, automatic controls and data handling systems, and held positions in the private sector and government.

K-State President Jon Wefald said the new engineering library is an important step to improving the university's library system.

"This latest gift from Alice Fiedler adds new momentum to our goal of a revitalized library system at Kansas State University," Wefald said. "Kansas State, with financial commitments from alumni and friends, and the cooperation of the legislature, will provide academic resources never before available at Kansas State."

## Student groups host conferences

### Engineering STUCO

The third annual Engineering Student Council Regional Conference, March 19-22, Dallas, Tx., was hosted this year by the K-State ESC.

Engineering stuco groups from Kansas, Oklahoma, Texas, Missouri, Arkansas, Louisiana, and Mississippi, met to exchange ideas on the various areas councils are involved in, and to start the process of founding a national organization.

John Dollar, assist. dean of the college, and advisor for KSU's ESC, explained that although the conference has always been held in Dallas due to its central location and availability of corporate sponsor facilities, different colleges are invited to host, based on the activity level of their organizations.

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Members of the KSU Engineering Student Council and their sponsors

# Auerbach gift funds scholarships

The Kansas State University Foundation has received a \$198,000 gift from a Massachusetts couple that eventually will provide scholarships to students in the College of Engineering.

Gerald and Barbara Auerbach used highly appreciated stock to create a Charitable Remainder Unitrust with the Foundation, the university's fund raising arm.

President Jon Wefald said, "This trust will provide lifetime income to the donors and eventually endow the Moritz and Selma Auerbach Scholarship. Annual scholarships will be available to upperclass students in any engineering area. Gifts like these which enable academically talented students to complete their education have a far-reaching impact. Not only do the students benefit, but everyone benefits as these students graduate to become productive, effective contributors to society."

The gift supports the \$100 million Essential Edge Campaign and honors Gerald Auerbach's parents. Gerald Auerbach is a 1950 K-State mechanical engineering graduate.

"Kansas State University provided me with an education that has helped me enjoy a successful career as an engineer and as an educator,"



*Gerald and Barbara Auerbach*

Auerbach said. "This gift reflects my appreciation for the College of Engineering, and Dean Durland, and for my parents who gave me direction and fostered my appreciation for education."

Auerbach retired in 1985 after a 50-year career. He began work as a tool maker apprentice in Germany and retired as a corporate senior vice president of Pneumo Corp., a leading manufacturer of aircraft landing gear, flight controls and other aerospace and in-

dustrial products.

A native of Germany and former Wichita resident, Auerbach also held positions with Carl Zeiss, O.A. Sutton, Aerojet General and CCI Corp. At retirement, he became an adjunct professor at Boston University's Center for Technology and Policy and the director of the Center's Technology Strategy Council. He is an officer in the Boston chapter of the Service Corps of Retired Executives.

Barbara Auerbach, a Wichita native, attended Washington University in St. Louis and was a medical laboratory technician. She has managed a retail business for 17 years and works with Temple Israel, Boston, and the National Women's Committee of Brandeis University. The couple lives in Chestnut Hill, Mass., a suburb of Boston.

"Support of the Essential Edge Campaign will benefit the university's students and faculty for decades," said Art Loub, KSU Foundation president. "Quality education increasingly relies upon the support of alumni and friends like Gerald and Barbara Auerbach. Academic strength at K-State depends, in large part, on the number of persons like the Auerbachs who are willing to share their resources for the betterment of Kansas State University."

# Rieb named 1992 Alumni Fellow



*Stanley L. Rieb*

Stanley L. Rieb, Torrance, Ca., has been named the 1992 Alumni Fellow by the College of Engineering. He graduated from Kansas State University in 1958 with a degree in civil engineering, completing a master's degree in engineering and mathematics in 1959.

Employed by TRW, Inc., Rieb is project manager for the Compton Gamma Ray Observatory (GRO), which put him in charge of producing what NASA has called "the world's finest flying science machine." The Compton Observatory is the second of NASA's Great Observatories, and at 17 tons, the heaviest NASA spacecraft ever launched from the Space Shuttle.

Before being named GRO project manager at TRW in May 1988, Rieb served as deputy program manager and prior to that as assistant project manager for design and development.

For work on GRO, Rieb, along with two prior TRW GRO project managers, received a 1990 Laurels Award from Aviation Week & Space Technol-

ogy magazine. The award honors individuals and teams who have made significant contributions in aerospace development.

Rieb managed TRW's Dynamics Department for five years before joining the GRO group project in 1984, and from 1977 to 1979 he managed TRW's Mechanical Design Integration Department.

"The College of Engineering is very proud to have Mr. Rieb as its 1992 Alumni Fellow," Don Rathbone, dean of the College of Engineering, said. "His contributions to his profession have distinguished him in the field of engineering. It will be a pleasure to have him on campus to interact with our students and faculty."

## Two K-Staters chosen for WISE program

Wayne Davis, KSU junior in ARE from Belleville, Ill., and Kenton Epard, KSU junior in EE from Colby, Ks., are two of 15 students selected in a nationwide competition for a 10-week public policy-making internship in Washington D.C. They will participate in the 1992 Washington Internships for Students of Engineering (WISE) from May 26 to August 1, 1992.

Davis and Epard will study the roles of engineers as they contribute to public policy decisions on complex technological matters, while working with the American Society of Heating, Refrigeration and Air Conditioning Engineers and the Society of Automotive Engineers, respectively. The program, sponsored by the American Society for Engineering Education, seeks as applicants outstanding third-year engineering students who display leadership skills and an interest in public policy.

K-State's College of Engineering has had at least one student chosen every year for the last eight years of the 12-year program. One year they had three. There are more than 250 engineering schools in the United



*l-r, Charles Burton, head ARE and CnS, Don Rathbone, dean College of Engg., Kenton Epard, jr. EE, Wayne Davis, jr. ARE, and Dave Soldan, head EECE.*

States from which these select students are chosen.

While in Washington D.C., Davis and Epard will be under the guidance of nationally prominent engineering

professors and receive five quarter credits each. A stipend of \$2700 per student is provided along with a travel allowance to cover living expenses during the 10-week program.

## Student wins fellowship / scholarship



*Don Rathbone, dean College of Engg., left, and Chris Baldwin, Sr, ChE, right.*

Chris Baldwin, senior in chemical engineering, has been awarded a prestigious National Science Foundation Graduate Student Fellowship. NSF fellowships are given each year to students in all areas of science and engineering throughout the nation.

Earlier in the year it was also announced he had won a prestigious

Marshall scholarship, valued at more than \$43,000. This brings K-State's total Marshall wins to four, the best record in the Big Eight in the past 10 years.

Baldwin was among 21 students selected from 155 nominees interviewed last November in Chicago for the Marshall scholarship. There were only 40 Marshall scholarships awarded in the nation this year.

Baldwin, who will study at Cambridge University in England for the next two years on his Marshall Scholarship, plans to postpone use of his fellowship. He hopes to receive his master's degree in chemical engineering with an emphasis on the environment while in England and use his NSF award, which provides a \$14,000 annual stipend for graduate studies, to pursue a doctorate degree in the same area of study. Baldwin said he is un-

sure if he will continue Ph.D. work at Cambridge or at another university.

A 1990 Goldwater scholarship winner, Baldwin has been active at K-State as chancellor of the university tribunal—KSU's judicial body, president of the student chapter of the American Chemical Engineering Society, a member of the debate team and the engineering arts and sciences honors programs.

He has been on the dean's honor roll for both engineering and arts and sciences. He was a National Merit finalist and a State of Kansas scholar. He received a KSU Presidential Scholarship and a Seaton scholarship awarded through the KSU Foundation.

Baldwin is a 1988 graduate of McPherson High School and is the son of Allen Baldwin of McPherson and the late Virginia Baldwin.

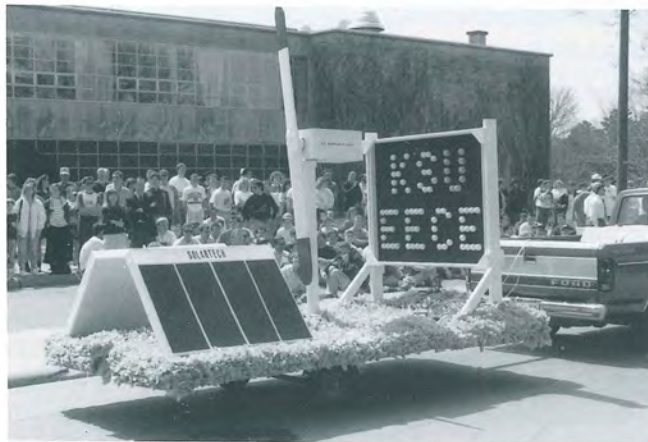
# Open house April 4 - 5, 1992



"Yellow Brick" winner - ET



CnS float



EECE float



"Outstanding Dept." - CnS, Tod Crimmins, Chrm. Steel Ring Competition Committee, left, and Joe Feldman, Open House Chrm., CnS



"Advisor of the Year" - Prof. Brad Kramer, IE, left, and Dean Rathbone



Culbertson Scholarship winner - Cynthia Riemann, sr. IE, left, and Dean Rathbone

## Award winners

**Yellow Brick**—ET (third consecutive year)

**Outstanding Department**—CnS

**Open Class**—ARE

**Freshman/Sophomore Class**—AgE

**Limited Class**—ARE

**Curriculum Display**—AgE

**Technical Presentation Award**—CE

**Graduate Award**—Mel Beikmann, ME

**St. Pat**—Ken Ward, senior in IE, Salina

**St. Patricia**—Kristen Good, senior in ChE, Wichita

**W. Leroy Culbertson Steel Ring Leadership**

**Scholarship**—Cynthia L. Riemann, senior in IE, Derby

**"Advisor of the Year"**—Dr. Bradley Kramer, IE



*SAE professional society display*



*Robotic systems - IE, AMI lab*



*Wind tunnel - ME*



*"Outstanding Limited Class" display - ARE*



*Dean Rathbone addresses alumni luncheon.*

## Du Pont / Conoco gift sets support record

A \$61,000 gift from Du Pont/Conoco to the Kansas State University Foundation has extended the company's record for continuous financial support to 35 years, the longest at K-State.

"Since 1957, Du Pont/Conoco has provided more than \$1.5 million to the university for scholarships, faculty support, equipment and research," said K-State President Jon Wefald. "There is an impressive record of support for higher education at Kansas State University."

"Du Pont/Conoco focuses philanthropic giving on the most successful and productive universities," said Duane Wilson, Du Pont/Conoco vice president for research and engineering. "At K-State, Conoco/Du Pont receives superior technical assistance from the faculty and highly talented and enthusiastic employees from the student population. By any measure, K-State's academic programs are successful and productive. We are extremely proud to support Kansas State University and its Essential Edge Campaign."

The \$61,000 grant will benefit chemical, mechanical, industrial and



David Soldan, right, head EECE, accepts a check from T.R. Tucker, dir. of adm. planning and services, Conoco Information Systems.

electrical engineering; chemistry; entomology; accounting; computer and information sciences; and minority engineering education. Du Pont/Conoco gave \$50,000 to the same

programs in 1991. Conoco also sponsors the Conoco Distinguished Faculty Program which awards \$10,000 annually to outstanding K-State faculty.

## Henry named Dean of Salina campus

Jack Henry, a senior engineer with IBM Corp., Austin, Tx., has been named dean of the Salina campus of Kansas State University.

Henry will begin his new duties July 1. He will assume leadership of the program development and operation, fund-raising, campus development and interaction with the community, K-State Provost Jim Coffman an-

nounced.

"He's going to be the person responsible for setting a vision for the college," the provost said.

Henry, 52, was chairman of the electronics program in the engineering technology department at Texas A&M University before joining IBM about nine years ago.

The College of Technology became

K-State's tenth college last May when the former Salina, Kansas College of Technology merged with Kansas State University. As the merger is completed over the next four years, the College will offer two-year and four-year mechanical and electrical engineering programs as well as a variety of other two-year engineering technology programs.

## ARE and CnS scholarships funded

Sherwood Construction Co., Inc., Wichita, Ks., has pledged \$12,500 to the Essential Edge Campaign for architectural engineering and construction science scholarships.

The gift will fund the Sherwood Construction Co., Inc. Scholarship for five years. Annual awards of \$2,500 will be presented to selected ARE and CnS juniors or seniors.

"The College of Engineering depends greatly on the private support of

K-State alumni and friends. The Sherwoods have been outstanding K-Staters," said Don Rathbone, dean of engineering. "We particularly appreciate scholarships such as these which are very important to our students."

Officers of Sherwood Construction Co., Inc. include Howard Sherwood, president, and John Sherwood, personnel director. Both live in Wichita.

Howard Sherwood, a 1956 K-State graduate, serves on the KSU

Foundation's Executive Committee as vice president of the Board of Trustees. He recently received the KSU Foundation's Advancement Award honoring service, commitment and leadership. He is a member of the elite Benefactors Circle donor group, recognizing gifts of \$100,000 or more.

John Sherwood is a 1962 K-State graduate and a member of Pi Kappa Fraternity. He serves as the construction firm's attorney and safety director.

## Dow matches NSF money for Fox

The Dow Chemical Company, Midland, Mi., has announced a commitment of \$37,500 per year, over the next four years, to be used by Rodney Fox, asst. professor of EECE, for his research in Computational Fluid Dynamics (CFD).

This amount of industrial support for research will be matched dollar-for-dollar by the National Science Foundation as a part of their commitment to Fox last spring when he was named a Presidential Young Investigator. This along with NSF's annual base grant of \$25,000 for Fox's research, will provide \$100,000 a year for the next four years for his work in the CFD arena.

"The Dow Chemical Company is an industrial leader in the application of CFD to chemical reactor design and analysis," Fox said. "I look forward to working closely with them in the development and application of new computational techniques for turbulent reactive flows of industrial interest."

Fox is the first K-State faculty member ever to receive a Presidential Young Investigator award. He earned bachelor's, master's and doctoral degrees from Kansas State and has experience teaching mathematics, statistics and engineering courses in both English and French.

## Nominees sought

Nominations are being accepted for those to be named to the Engineering Hall of Fame Class of 1992. This year's initiation ceremony and banquet will be held on Oct. 2, 1992.

Eligibility is limited to engineering graduates from Kansas State University with one exception permitted each year. A minimum of 20 years professional experience is required and the following four criteria taken into account: success in chosen career, active involvement and support of the College of Engineering, active involvement and support of KSU, and professional public service.

Deadline for nominations is June 15, 1992. These should be sent to Hall of Fame; College of Engineering; 146 Durland Hall; KSU; Manhattan, Ks. 66506-5104.



*l-r, Gale Simons, dir. Engg. Exp. Station, Farhad Azadivar, dir. AMI, Bill Von Aspe, Mgr. Boeing R&D, and Don Rathbone, dean College of Engg.*

## Boeing supports AMI research

The Boeing Company, Wichita, Ks., has contributed \$50,000 to the College of Engineering in support of the Integrated Design, Manufacturing and Assembly Laboratory. The IDMA is a part of the facilities of the Advanced Manufacturing Institute, at K-State's College of Engineering, a K-Tech Center of Excellence.

The Boeing gift indicates industry support for KSU's proposal to the National Science Foundation for a strategic manufacturing initiative program. The NSF proposal is entitled "An Intelligent Manufacturing Information and Control System: A Feature-Based

Concurrent Engineering Approach." The project will develop a framework for manufacturing enterprises to build their own knowledge control systems. The Boeing gift, in collaboration with the KSU proposal, is designated for equipment.

"The Boeing Company is important to the state of Kansas and Kansas State University," Don Rathbone, dean of the college, said. "We are extremely pleased they have chosen to support one of our major areas of strength—manufacturing, and appreciate their collaboration on this National Science Foundation proposal."

## Estate gift for scholarships

A \$250,000 gift provided through the estate of Hazel Jenner, Wichita, Ks., has established two memorial scholarships with the Kansas State University Foundation.

"Gifts from friends like Mr. and Mrs. Jenner, who were not graduates of Kansas State University, will help the university excel as a leader in education, research and service," said Bob Hagans, a Kansas City business executive and national chairman of the \$100 million Essential Edge Campaign. "They were friends of Kansas State and of young people."

The John W. Jenner Scholarship will benefit students in science or engineering, and the Hazel M. Jenner

Scholarship will be awarded to qualified students in any curriculum.

"The Jenners were long-time supporters of Kansas State," said K-State President Jon Wefald. "John Jenner established a trust with the KSU Foundation in 1959 to underwrite annual awards for outstanding apprentices in the Kansas electrical industry." He formerly owned Shelley Electric of Wichita.

Estate gifts also benefited the Kansas 4-H Foundation and various children's organizations.

This gift is included in the Essential Edge Campaign which has received gifts and commitments exceeding \$95 million.



*l-r, The four student coordinators of the College of Engineering's participation in the KSU Foundation Telefund, all members of the National Society of Professional Engineers Student Branch: Elizabeth Sullivan, jr., NE; Lynn Hughes, jr., CnS; Doug McGiver, soph., EE; and Laurie Davidson, jr., ME.*

## Telefund sets record - again!

Student callers for the College of Engineering participating in the KSU Foundation Telefund—the student contribution to the Essential Edge Campaign—set records both in dollars and pledges for the 13th consecutive year.

John Dollar, assistant dean of the College of Engineering, said 214 callers, between February 6 and 12, garnered \$136,200 from 3,264 pledges. This was a ten per cent increase from

1991 figures.

"We were extremely encouraged at the response of our alumni in light of current economic conditions," Dollar said. "Our student callers were very enthusiastic about their task and enjoyed using the new facilities at the Foundation Center."

The top three engineering student callers were Jennifer Walker, senior in CE; Scott W. McKinley, senior in ARE; and Kathy Alexander, junior in ChE.

## Roberts create scholarship

Bruce and Marcelle Roberts, Salina, Ks., have created a scholarship through a \$50,000 gift to the Kansas State University Foundation. The gift will benefit qualified students enrolled in civil engineering.

The Bruce E. Roberts Scholarship supports the \$100 million Essential Edge Campaign. Preference will be given to students from Saline County.

"The engineering curriculum is challenging, and we hope this scholarship encourages outstanding students to become outstanding engineers," said Bruce Roberts, retired senior execu-

tive partner with Wilson & Company, Engineers and Architects of Salina.

Roberts graduated from K-State in 1939 with a bachelor's degree in CE. He is a member of Steel Ring Engineering Honorary, and a life member of the National Society of Professional Engineers. He is a Fellow of the American Society of Civil Engineers and the American Consulting Engineers Council. Roberts was inducted into the Engineering Hall of Fame at K-State in 1989 and received the College of Engineering Distinguished Service Award in 1979.

## Conferences hosted

■ *continued from page 1*

Amy Ewert, senior in ARE and president of the KSU Engineering Student Council, chaired the conference in Dallas and was mistress of ceremonies for the final night banquet. Secretary of the K-State group, Christine Bates, senior in ME, was selected to be the regional representative to the ESC constitutional convention to be held later this year in Washington D.C. She will serve on the committee that will draft the constitution for the national charter.

## Tau Beta Pi



*Tau Beta Pi members with their sponsor*

The K-State chapter of Tau Beta Pi, the all-engineering scholastic honorary, hosted the organization's District Nine meeting, February 29, in Durland Hall.

Sixty-two members, representing all 12 chapters in District Nine, from Arkansas, Missouri, Nebraska, Kansas and Oklahoma, attended the day-long event which included discussion of chapter operations, a luncheon, and an afternoon session on leadership training.

Eddie Fowler, assoc. professor of EECE, and the major advisor of Tau Beta Pi at K-State, said this conference marked the first time in several years that delegates from all 12 chapters had been in attendance, and credited this fact to the "strong organizational efforts of the K-State chapter" in planning and hosting the District Nine event.



## ASHRAE recognizes ME professor

# Azer elevated to grade of 'Fellow'

Naim Z. Azer, mechanical engineering professor at KSU, was elevated to the grade of Fellow of the American Society of Heating, Refrigerating and Air-Conditioning Engineers at its winter meeting in January.

A Fellow in ASHRAE is a membership grade that recognizes distinction in the arts and sciences of environment technology. The honor is earned through achievement as a researcher, designer, educator or engineering executive, and is conferred upon approval by the Society's Honors and Awards Committee and the board of

directors.

Azer joined the KSU engineering faculty in 1964. Prior to that he was a member of the engineering faculty at the University of Alexandria, Egypt. He received a Ph.D. from the University of Illinois at Champaign-Urbana in 1959.

He teaches undergraduate and graduate level courses in thermal science. Azer has written more than 60 papers on heat transfer, fluid mechanics and environmental engineering, and he developed an ASHRAE standard on methods for measuring the flow of liquids in pipes using orifice flowmeters.

ASHRAE, founded in 1894, is a 50,000-member international organization. Its sole objective is to advance through research, standards writing and continuing education, the arts and sciences relating to heating, ventilation, air conditioning and refrigeration for the public's interest.

Other K-Staters who are currently Fellows in ASHRAE include Dick Hayter, director, Engineering Extension; Paul Miller, prof., ME; Bob Gorton, prof., ME; and Fred Rohles, prof. emer., Environmental Research Institute.

## More student honors . . .

### . . . Rainbolt takes first place

Robert L. Rainbolt, Jr., senior in ChE, was awarded first place for his paper he presented at the Mid-America Regional Student paper contest of the American Institute of Chemical Engineers. It was entitled, "An Experimental Study of Bubble Formation Transitions at Sieve Plate Spargers."

For his honor, he received \$100 and a subscription to the AICE Journal. In addition, Rainbolt is eligible to compete in the national student paper

contest of the annual meeting of AICE in Miami Beach, Fl., this November.

Other Big Eight universities who participated in the competition included the Univ. of Kansas, Univ. of Oklahoma, Oklahoma State Univ., Univ. of Nebraska, Univ. of Missouri and Iowa State Univ. In addition, other institutions represented were the Univ. of Iowa, Univ. of Arkansas-Fayetteville, Washington Univ.-St. Louis, Univ. of Missouri-Raleigh and Univ. of Tulsa.

### . . . Nuss featured in magazine

A K-State engineering student has appeared in a national magazine, recognized for his outstanding achievements.

Kurtis Nuss, senior in chemical engineering, was featured in Chapter One, published quarterly by the American Institute of Chemical Engineers. The magazine profiles four students from around the United States each issue.

Nominated by professors, students

are selected for academic achievement and level of extracurricular activity participation.

Nuss is president of the Lambda Chi Alpha fraternity, a member of Mortar Board senior honorary, and the chemical engineering honorary, Omega Chi Epsilon.

Other students recognized in the 1992 Winter edition of Chapter One were from MIT, the Univ. of Mass., and the Univ. of Iowa.

## Sproul-Owen Scholarships

A former Hutchison resident has given \$15,000 to the KSU Foundation to establish scholarships benefiting Kansas State University students.

Helen Sproul-Owen established three \$5,000 scholarships. The "Red" Web Sproul Memorial Scholarship honors her brother and benefits civil engineering students. The Harold G. Owen Memorial Scholarship honors her husband and benefits chemical engineering students. The Helen Sproul-Owen Scholarship will assist architecture students. All three scholarships support the \$100 million Essential Edge Campaign.

"I wanted to find a way to keep the memories of my husband and my brother alive on the campus of their alma mater," said Helen Sproul-Owen. "Establishing scholarships in their names seemed to be the best way to do it."

H.W. Sproul received two degrees from K-State and played first base for the K-State baseball team.

"I also wanted to help students who are unable to attend college because of the expense," Sproul-Owen said. "I hope many young people who need extra support for their education will benefit from my donations." Helen Sproul-Owen is a 1932 K-State arts and sciences graduate, and now lives in Sun City, Az.