

IMPACT

Kansas State University College of Engineering

Vol. 25, Number 4 Fall 1990

Committee, contributors aiding fund drive

"With the leadership provided by our national college of engineering fund raising committee, combined with outstanding contributions from alumni and friends—including industry, our outlook continues to be optimistic for reaching our goal of raising \$18,000,000 for the college," Don Rathbone, dean of the College of Engineering, said, in recent comments on the college's participation in the Essential Edge campaign.

Implemented by the Kansas State

University Foundation Board of Trustees, the Essential Edge program is designed to raise \$100,000,000 for the university's eight colleges in a five-year effort. The College of Engineering has just recently passed the \$9 million dollar mark, and is halfway toward fulfilling its \$18,000,000 commitment—the largest goal of any single college or group at the university, Rathbone said.

The national committee for the college in this effort, which is adminis-

trated by Rathbone, is co-chaired by H.L. (Hal) Siegele, Houston, Tx. and Robert G. Tointon, Greely, Co. Other members include: Jerry Boettcher, Beloit, Ks.; Richard Kerschen, Wichita, Ks.; Charles T. Carter, Independence, Ks.; Alvin J. Mistler, Middleton, Oh.; Donald R. Chesnut, Media, Pa.; Dean O. Morton, Los Altos Hills, Ca.; Stuart Curtis, Dodge City, Ks.; Laree Mugler, Shelton, Ct.; Joseph L. Downey, Midland, Mi.; Ernie Nelson, Mission Woods, Ks.; Gary Edwards, London, England; Rhea Serpan, Danville, Ca.; Alex Geldhof, Kent, Oh.; Lloyd T. Smith, Newton, Ks.; James R. Grier, Wichita, Ks.; Virgil Snell, Overland Park, Ks.; Darrell Hosler, Leawood, Ks. and John Walters, Manhattan, Ks.

Individual donors who have given \$25,000 or more toward the College of Engineering's goal are: Alice Teresa Fiedler, Nona Frankenhoff Trust, Stanley L. Rieb, LeRoy G. and Mary Paslay, Mark H. and Margaret Hulings, H. L. (Hal) and Mary Seigele, Joe Shepek, Nancy and Chris Curtin, Ronald D. Bowman, Gordon A. and Joyce Goering, Dean O. and Lavon Morton, Jarold W. and Barbara Boettcher, the Charles P. Downey family, Gil and Barbara Johnson, Ron Anderson and Charles T. Carter.

Corporate gifts of \$100,000 or more include Hewlett-Packard, Control Data Corporation and AT&T Information Systems.

Record-setting participation for engineering career fair, banquet

With 59 exhibitors in attendance, the largest ever Engineering Career Fair was held Sept. 17 in Durland Hall. The annual event is open to all engineering students and is sponsored by the Minority Engineering Program.

Companies and government agencies set up information booths, making themselves available for students' questions about career opportunities, according to Barbara Finnegan, staff assistant. This is the seventh year for the career fair, and it was preceded by an Industry Recognition Banquet the evening before at the Manhattan Holidome.

Thirty-nine corporations participated in banquet activities, Finnegan said, an event where students can participate in small group dialogue with corporate recruiters of their choice.

"We hope to expand this event even further next year," Don Rathbone, dean of the College of Engineering, said, "in both number of exhibitors and banquet participants. Any company or agency wanting to be involved in our career fair should contact the dean's office in Durland Hall."



**NASA Astronaut
visits K-State**

see story page 3

Class of 1990 inducted into Hall of Fame

Induction ceremonies for the 2nd annual Kansas State University College of Engineering Hall of Fame were held Oct. 26 at the Manhattan Country Club. Ten members of the Class of 1990 were honored following a reception and dinner.

Eligibility for the Hall of Fame is limited to engineering graduates from K-State with one exception permitted each year. A minimum of 20 years professional experience is required and four criteria are taken into account by the selection committee formed from the Engineering Advisory Council and engineering faculty: success in chosen career; active involvement and support of the College of Engineering; active involvement and support of KSU; professional and public service.

Those inducted, their year of graduation and major, were: **William C. Higdon**, 1934, ME; **William H. Honstead**, 1939, ChE; **Mark H. Hulings**, 1948, ME; **Joseph F. Allison**, 1950,

■ *continued on page 8*

Eleven join engineering faculty

Eleven new faculty members joined the College of Engineering this fall in four departments.

Electrical Engineering and Computer Engineering Norman Dillman, professor, comes to K-State from 15 years with Hewlett Packard. He holds a Ph.D. in EE from Iowa State Univ.

Dwight Day, asst. professor, has a Ph.D. in EE from Oklahoma State Univ., and has formerly been with Boeing in Wichita.

William Hudson, asst. professor, completed his Ph.D. in EE&CE from New Mexico State Univ., where he had also been an asst. professor since 1987.

Rodney Fox, asst. professor, holds a Ph.D. in ChE from K-State, where he has been an asst. professor in mathematics and statistics since 1989.

Industrial Engineering Farhad Azadivar, assoc. professor, has a Ph.D. from Purdue Univ. in IE. Prior to his position at K-State, he was an assoc. professor and chair in IE at Northern Illinois Univ.

David Ben-Arieh, asst. professor, also has a Ph.D. in IE from Purdue Univ.,

and was head of a center for robotics and production management.

Evangelos Triantaphyllou, asst. professor, earned a dual Ph.D. in Operations Research and IE from Pennsylvania State Univ., where he had been a computing research consultant.

Agricultural Engineering Naiquan Zhang, asst. professor, has a Ph.D. from Virginia Poly-Tech Inst. He comes to K-State from a post-doctoral research position at the Univ. of California, Davis.

Rolando Flores, asst. professor, holds a Ph.D. in grain science and industry from K-State, and had also been an asst. professor in that department.

Chi-Tai Huang, asst. professor, has a Ph.D. in food engineering from the Univ. of Massachusetts. He had been a research assoc. with Nabisco Brands, Inc., New Jersey, prior to accepting the position at K-State.

Architectural Engineering and Construction Science Mark Imel, instructor, holds a master's degree in ME from the Univ. of Illinois. He has been with the U.S. Army Construction Engineering Research Laboratory since 1985.

Conoco, Du Pont award grant to college

The College of Engineering and six academic departments will share in a \$39,000 grant awarded by Conoco and Du Pont.

The chemical engineering department will receive \$7,000, while the departments of agronomy and entomology will receive \$6,000 each. The College of Engineering and the departments of mechanical engineering, chemistry and accounting will receive \$5,000 each.

"At Conoco and Du Pont, education is considered the apprenticeship of life, and our company stands firm on the belief that quality education ensures that today's students are tomorrow's community leaders," Duane Wilson, Conoco vice president of research and engineering, said in presenting the gift to university representatives during an August luncheon at K-State.

"As an employer of several hundred K-State graduates, our company considers it a privilege to support KSU and its highly respected programs," he added.



(from left to right) L.T. Fan, head of ChE; Pete Diamond, Conoco manager of project design and construction division; Don Rathbone, dean of the College of Engineering; Duane Wilson, Conoco vice-president of research and engineering; and Allen Cogley, head of ME.

NASA astronaut makes campus visit



NASA astronaut Dr. N. Jan Davis visited the Kansas State University campus Sept. 26-27, meeting with students and faculty, and conducting a public forum.

Davis became an astronaut in 1988 and is scheduled to be a mission specialist for a joint U.S.-Japanese space lab mission in the spring of 1991. She was named the NASA Woman in Science and Engineering in 1986, and the American Institute of Aeronautics and Astronautics' Young Engineer of the Year in 1987.

On the first day of her visit, Astronaut Davis gave a seminar for mechanical engineering students entitled, "Space Shuttle, Space Lab and Astronaut Training." Later that evening, in a session open to the public, she presented the film "Space Shuttle."

"Materials and Life Science Experiments on the Joint American-Japanese Space Lab," was the title of her lunch-

eon address on Thursday, Sept. 27, an event sponsored jointly by the department of mechanical engineering, the College of Engineering and the Graduate School.

During the two-day campus visit, Davis met with faculty and design team members involved with the NASA/University Space Research Association (USRA) project. Eighteen K-State engineering students were chosen last year to be members of an interdisciplinary design team working to create an automated life support system for Space Station Freedom. She also held informal meetings with engineering, biology and geology faculty members.

Allen Cogley, head of ME at K-State, and a member of Davis' Ph.D. committee, while head of ME at the University of Alabama in Huntsville, was instrumental in arranging the astronaut's visit to Manhattan.

(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.

KSU engineering mementos available

As a personal memento, or a gift, the KSU College of Engineering is making available fine quality, white marble paperweights, with up to five engraved lines of words of your choice to be centered on a metal plate between the headings "College of Engineering" and "Kansas State University," with the KSU Wildcat logo to the left.

The price of the paperweights is \$13 each, which includes shipping and handling. Checks should be made payable to the Kansas State University Foundation and orders must be received by December 15, 1990.

Orders should be mailed to: Dean of Engineering, Rm 146, Durland Hall, KSU, Manhattan, Ks. 66506-5104. If you have any questions, call: Kelley Blankley (913) 532-5590. Please allow 4-6 weeks for delivery after the deadline date.

My choice of up to five lines of engraved type are as follows:



Please send me ____ paperweight(s) at \$13.00 each.

My check amount enclosed, made payable to the Kansas State University Foundation, is \$_____.

Mail to:

Name _____

Address _____

City/State _____ Zip _____

Tel. No. _____ - _____

DOE designates K-State as engineering training institute

The U.S. Department of Energy has selected K-State to participate in its fellowship and scholarship programs in environmental restoration and waste management.

As a DOE-designated institution, KSU will train graduate and undergraduate students in several fields of engineering and science that relate to environmental cleanup.

Larry Erickson, ChE professor, will coordinate the program. The graduate fellowships include a \$14,000 annual stipend that is renewable for two to four years of study leading to a master's or

doctorate degree. The undergraduate scholarships provide tuition and fees and a \$600 monthly stipend.

Erickson said DOE established the fellowship/scholarship program in anticipation of a need for experts in environmental protection and restoration and waste management, especially hazardous, mixed and low-and high-level radioactive wastes.

DOE has awarded this scholarship to two K-State undergraduate students for the 1990-91 academic year. Recipients are Brendan Ryan, Shawnee, and Mark Stedry, Arkansas City, both NE majors.

Land gift to fund KSU scholarships

A Florida couple have donated a quarter section of farm land, valued at \$48,000, to the Kansas State University Foundation, to be used to provide scholarships for K-State students in the Colleges of Engineering and Arts and Sciences.

Norman Branson, a 1938 KSU graduate in EE, and his wife Eunice, Stewart, Fl., contributed the Republic County property which had been in the family for more than 100 years.

Proceeds from the sale of the property will be added to the James A. Branson Memorial Scholarship, established with the KSU Foundation in 1966, to honor the couple's son who was killed in Vietnam.

Faculty recognized for achievements

Bradley A. Kramer, asst. professor, IE, has received a 1990 Dow Outstanding Young Faculty Award from the American Society for Engineering Education. The award was based on his commitment to educating students and to building a leading program in manufacturing engineering at K-State. The Dow award funded an all-expenses paid trip this summer to the society's annual convention in Toronto for Kramer and 10 other award recipients.

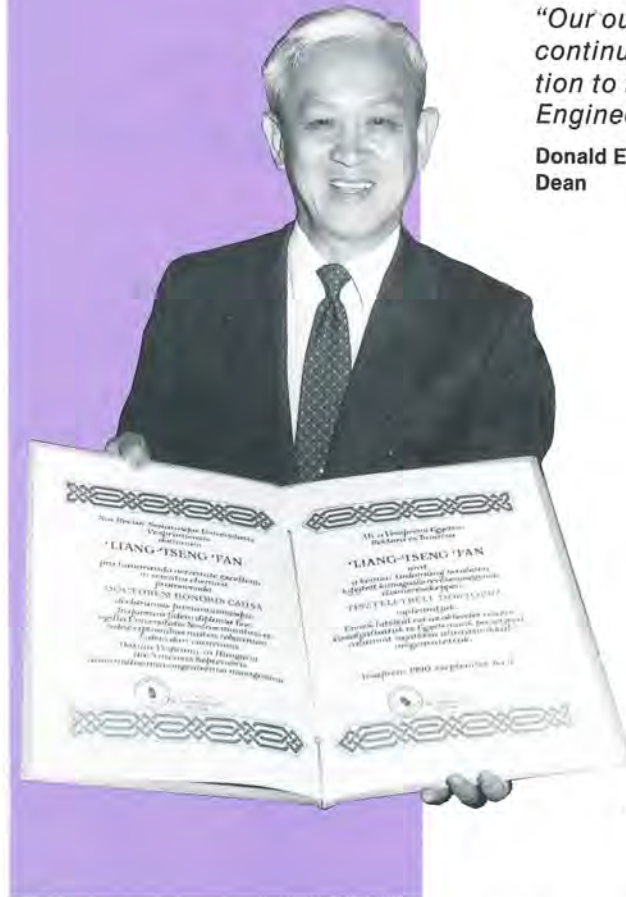
L.T. Fan, distinguished professor and head of ChE, has been awarded an honorary doctorate from the University of Veszprem, Hungary. The investiture was held on September 5 in conjunction with the opening ceremonies for the academic year of the university which is affiliated with the Institute for Technical Chemistry of the Hungarian Academy of Sciences; Professor Fan's stay in Hungary was hosted by the Academy. Since 1962, the university has awarded 13 honorary doctorates. Fan was the second from a non-European country.

Harry L. Manges, professor, AgE, was elected district director of the American Society of Agricultural Engineers. He was installed at the society's international summer meeting in Columbus, Oh., and his term will run for two years. In this position, Manges will represent nearly 2,400 members in the mid-central states concerned with engineering in food and agriculture.

James F. Goddard, assoc. professor, AE & CnS, has been elected a member of the Board of Trustees of the American Council for Construction Education. The ACCE is the accrediting body for all construction management programs throughout the United States. He was elected in July with his duties to begin immediately.

James R. Hague, asst. professor, ET, received the award for most outstanding paper for his presentation "Is the 386-20 the entry level computer of the 90s?" at the Midwest section of the American Society for Engineering Education meeting in Pittsburg, Ks. The paper was his first professional presentation.

Richard Hayter, director of engineering extension, has been named a Fellow of the American Society of Heat-



Dr. L.T. Fan

"Our outstanding faculty continue to bring distinction to the College of Engineering."

Donald E. Rathbone
Dean

ing, Refrigerating and Air-Conditioning Engineers. Presentation of the award will be Jan. 19, in New York City at the 1991 Winter Meeting. The honor recognizes distinction in the arts and sciences of environmental technology and is earned through achievement as a researcher, designer, educator or engineering executive. Hayter is also currently serving as vice president of the 50,000-member international organization.

John C. Lindholm, engineering professor emeritus, has been elected to the grade of fellow by the American Society of Mechanical Engineers Board of Governors. In receiving this highest order of membership, he is being recognized for his contributions in industry, research, teaching and service.

Five faculty members have been selected as Halliburton Professors for 1990. Financial support associated with the professorship is a \$3,000 award plus \$2,000 to be used for travel in connection with professional meetings, memberships, attendance at seminars and short courses to enhance faculty skills and development. Recipients are: **Larry Glasgow**, ChE, **Daniel Swenson**, ME, **Charles Bissey**, AE & CnS, **Bradley Kramer**, IE, and **Hermann Donnert**, NE. The Halliburton Foundation, Inc., Houston, Tx., provided the grant funds for this supplemental support of faculty members, as a part of their continuing recognition of teaching excellence in the College of Engineering at K-State.

Enrollment numbers up

Fall 1990 enrollment figures from the KSU Office of the Registrar show the College of Engineering with 2,635 students—22 more than a year ago.

"We are pleased to be holding our own and even showing an increase in our enrollment numbers," John Dollar, asst. dean of the College of Engineering, said. "Many programs around the country continue to see decreases in enrollment in the engineering field."

Alumni deaths

■ continued from page 7

Max L. Garrison (ME '49) died of a heart attack June 24 in Bakersfield, Ca. He was a retired Air Force National Guard pilot, a former chief engineer with McDonnell Douglas, and an engineer liaison with NASA.

Gordon E. Burns (ME '49) died July 23 at Topeka, Ks. Prior to retirement he had been a mechanical engineer for Good-

The three curriculums with the largest number of students are electrical engineering and computer engineering, architectural engineering and construction science, and mechanical engineering, Dollar said.

Numbers in the College of Engineering reflect the increased enrollment campus wide as total university figures show 21,137 students, an increase of 1,027 from 1989.

year Tire & Rubber Co., a civil engineer for the Kansas Dept. of Transportation and a highway designer for Burgwin & Martin Consulting Engineers. He is survived by his wife.

J. Phillip Upton (ME '60) died July 28 in Houston, Tx. He was director of engineering for Falick/Klein Partnership, Inc., and is survived by his wife, two daughters and a son.

'Hall of Fame'

■ continued from page 2

ChE; **Eugene L. Fieldhammer**, 1950, CE; **Richard D. Scherer**, 1952, EE; **Neil R. Vander Dussen**, 1955, EE; **John A. Weese**, 1955, ME; **Chance Bahadur**, 1962, NE; and **Harlan D. Stauffer**, 1966, CE.

Also inducted were three members of the Class of 1989 who had been unable to attend last year's ceremonies: **James C. Richards, Jr.**, 1934, ChE; **Harold G. Lonsinger**, 1956, ME; and **William M. (Mike) Lackey**, 1963, CE.

Photographic highlights of the 2nd Annual Engineering Hall of Fame activities will be featured in the Winter 1991 **Impact**.



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