Gowdy back at K-State

Kenneth K. Gowdy, former administrator, faculty member and student at K-State, has been named associate dean of engineering.

Gowdy is currently head of the Texas A&M Department of Engineering Technology. He was head of engineering technology at KSU from 1975 to 1979 and served as assistant dean of engineering from 1965 to 1975.

A 1955 graduate in mechanical engineering from K-State, Gowdy was starting center for the Wildcat football team from 1951-1953. He was named to the AP and UPI All-Big 7 second team and was All-American Academic second team center.

Gowdy joined the faculty after receiving his M.S. degree from K-State in 1961. He holds a Ph.D from Oklahoma State University.

In his new position, Gowdy will have day-to-day responsibilities for the academic programs and will coordinate the scholarship and cooperative education programs. He also will assist with long-range planning.

In announcing the appointment, Dean of Engineering Donald E. Rathbone said, “This will allow me to be more active outside the College in areas such as fund-raising and high technology development. I think Ken will do an outstanding job as associate dean. We’re pleased that he is returning to KSU.”

Goering a 1984 Fellow

Gordon D. Goering, senior vice president at Phillips Petroleum Co., Bartlesville, Okla., and a 1954 graduate in chemical engineering, returned to the campus this spring as one of two KSU Alumni Fellows.

The program, in its second year, recognizes alumni who have distinguished themselves in their careers. Goering shared the honors with Melville R. Mudge, a 1947 graduate in geology.

Cont’d. p. 2

Service rewarded

Edward J. King, a 1943 graduate in electrical engineering, received a KSU Alumni Association Medallion Award during University commencement exercises in May.

King, who is president of King Radio Corp., Olathe, was one of three KSU graduates selected for the honor on the basis of humanitarian service to society.

Cont’d. p. 2

Professorship a ‘first’

John E. Gibson, former dean of engineering at the University of Virginia, has been named Regents Distinguished Professor of Engineering at K-State.

Regents Professorships are given to individuals who are outstanding in their field and who will contribute to the economic development in the state, with salary supplements provided by the Kansas Board of Regents. Gibson will be the first to fill such a position in the College of Engineering.

Gibson will be teaching courses in electrical and industrial engineering. He also will assist with programs related to economic development and advanced technology.

He is a 1950 graduate of Rhode Island State College in electrical engineering and received M.S. and Ph.D degrees from Yale University.

Gibson was instrumental in raising funds to establish a new center for computer-aided engineering at Virginia. He also has developed the initial program plan for Governor Charles Robb’s blue ribbon task force on high technology for the state.

Gibson heads the National CAD/CAM Consortium, a joint effort among 12 major universities to introduce CAD/CAM principles into the engineering curriculum.

Cont’d. p. 8
Goering, from p. 1

Goering is the second engineer to be named to the program. Gilbert E. Johnson, president of Johnson Construction Co., Colorado Springs, was selected as an Alumni Fellow in 1983.

Goering has been a key executive with Phillips since 1978, when he was elected vice president in charge of refining operations. Prior to that, he had managed the company's Ekofisk operations in the North Sea. He was named manager of the offshore oil and gas project in 1975 after a series of overseas assignments beginning in 1966.

Goering began his career with Phillips in 1956 as an engineer at the company's Kansas City, Kan., refinery. Later he held various technical and supervisory positions at the Kansas City and Sweeney, Tex., refineries. He has been senior vice president since 1980.

Service, from p. 1

King worked for RCA and Aireon Corp. after graduating from KSU. He formed Communications Accessories Co. in 1948 and left in 1959 to form King Radio.

He is a former president of the KSU Foundation Board of Trustees and contributed funds for the K-State International Student Center. He has served on the Engineering Advisory Council and the advisory committee for the Durand Hall fund-raising campaign.

KSU President Duane Acker, who presented the award, said King "has made impressive contributions to his alma mater in time, talent and energy. His contribution to the International Student Center is appreciated daily by K-State students, faculty and staff who use the center as a place for communications between peoples and cultures."

Clockwise, from left:
Tom Barrett
Dean Morton
John Shupe

New on Council

Two industry executives have been named to the College of Engineering Advisory Council.

Appointed by Dean of Engineering Donald E. Rathbone are Donald

Chesnut, a 1950 K-State graduate in electrical engineering, and Larry Mugler, a 1972 graduate in mechanical engineering.

Mugler, of Clay Center, was recently promoted to manager of the Lima, Ohio, plant of Procter & Gamble Co. She is the first woman plant manager in the company's history.

Chesnut is a vice president of Boeing Corporation who directs avionics and weapons systems integrated programs at Boeing Military Airplane Company in Wichita. Both new council members have been with their respective companies since graduation from K-State.

In announcing the appointments, Rathbone said, "We are very pleased that Laree and Don have agreed to serve on our advisory council. Both have retained close ties with their alma mater and have been strongly supportive of our engineering programs. They both have been successful in their careers, and we believe they will have much to contribute to the council."

Mugler and Chesnut will serve two-year terms on the 19-member board, which provides liaison with industry, scientific organizations and other universities.

Gift added to fund

The College of Engineering has received a $9,000 gift from Conoco, Inc., $5,000 of which has been earmarked for equipment for Durand Hall, the new engineering building.

The $5,000 represents part of the company's $15,000 commitment to the Durand Hall fund-raising campaign.

The donation brings to more than $1.4 million the amount pledged in the drive, which began in the spring of 1981. The goal was $1 million.

"Though we had planned this as a three-year campaign, we are still receiving contributions," said Dean of Engineering Donald E. Rathbone.

"Our campaign has been a success, and we are grateful for the support from industry, alumni and other individuals. They all deserve a big thank you for their assistance in helping to keep our facilities among the best in the nation."

Three given DSA's

Three engineering graduates who have made outstanding contributions to their profession were presented Distinguished Service Awards this spring.

Receiving the honor were Tom H. Barrett, president of Goodyear Tire & Rubber Co., Akron, Ohio; Dean O. Morton, executive vice president of Hewlett-Packard Co., Palo Alto, Calif.; and John W. Shupe, director, Pacific Site Office of the U.S. Department of Energy, Honolulu, Hawaii.

Barrett joined Goodyear as a trainee at the Topeka plant in 1953 after earning a B.S. degree from KSU in chemical engineering. He became superintendent of the Akron tire plant in 1962. After filling management positions in various other locations, he was promoted to vice president, executive vice president, and director, and became president in 1982.

Morton earned a B.S. in electrical engineering from KSU in 1954. He joined Hewlett-Packard as a marketing trainee in 1960 after receiving an MBA from Harvard University.

He progressed through various management positions in engineering and marketing and was elected a vice president in 1973. He became executive vice president in 1977 and is responsible for H-P operations in medical and analytical products, electronic components and corporate manufacturing.

Shupe was associate dean of engineering at K-State from 1959 to 1965 and elected to become dean of engineering at the University of Hawaii. While at Hawaii, he established the Hawaii Natural Energy Institute as a focus for support of renewable energy programs. He resigned as dean in 1980 to engage full time in research and development at the institute. He joined the Department of Energy in 1983, and is responsible for federal energy programs throughout the Pacific.

Shupe is a 1948 KSU graduate in mechanical engineering. He has an M.S. in civil engineering from the University of California, Berkeley, and a Ph.D. from Purdue University.
Company of the Year: Hewlett-Packard

Hewlett-Packard Co., Palo Alto, Calif., was selected as the College of Engineering "Company of the Year."

Four H-P executives took part in April in the day-long program sponsored by Tau Beta Pi.

Leading the entourage was Dean O. Morton, executive vice president at H-P, and a 1954 KSU graduate in electrical engineering. Morton was presented with a Distinguished Service Award at the evening banquet and recognized as "Man of the Year."

Morton was accompanied to the campus by Brian Casey, district sales manager for Electronic Instruments; Geoff Chance, engineering manager for the Colorado Telecommunications Division; and Alan Richards, R&D project manager at the company's Greeley, Colo., Division.

They spent the day lecturing to classes, meeting students and touring engineering facilities. The company was chosen for the honor on the basis of interest in education, commitment to the engineering profession, and support of the KSU engineering program.

H-P's Alan Richards, at right, addresses an engineering technology class. At right, above, group meets with Dr. Michael Lucas in electrical engineering laboratory. From left are Lucas, Geoff Chance, Dean Morton, Richards, Brian Casey and Dean of Engineering Donald E. Rathbone. In photo above, company representatives are welcomed to the campus by Tau Beta Pi officers.

Ag engineering students shine in design competition

Agricultural engineering students have added two more awards to their list of prizes for machine design.

Their "Hay-Veyor," a device that gathers and moves field windrows, won the second-place award in the national design contest sponsored by the American Society of Agricultural Engineers.

The students took first place in regional competition with "E-Z Bale," a device that features a new, straight-line method of baling field windrows. The machine qualifies for competition for a national award to be given in December.

E-Z Bale is a control system which results in even feeding across the width of a large round baler, said Mark Schrock, faculty advisor on the project, along with Stanley Clark.

The Hay-Veyor was designed to move a windrow to a new location and fluff it up for faster drying. It also can be used to combine two windrows to make baling easier. The machine was developed in a machinery design class taught by G. E. Fairbanks, now professor emeritus of agricultural engineering.

Windrows are long, narrow rows of crop residue that has been mowed down and left to dry. The vegetation is later bailed and used for feed.

Members of the team that developed the Hay-Veyor were Mark Ellert; Beloit; Naomi Reiger, Buhler; Dennis Schmidt; Caldwell; and Robert L. Tedford, Minneola.

The E-Z Bale design team consisted of Bryan Andra, Conway Springs; Kent Funk, Hillsboro; Clyde Lang, Ellis; and Phil Todd, Maple Hill.

More honors

Rodney Fox, graduate student in chemical engineering from Wichita, has received a National Science Foundation Fellowship. The award will include a $675 per month stipend plus $4,900 for tuition and fees. He plans to do research in stochastic processes and probability theory, under the direction of L. T. Fan. Fox received a B.S. in chemical engineering from KSU in 1982.

Marc Brack, a May graduate in

Cont'd. p.8
Engineering faculty members in spotlight

4 honored by ASEE

K-Staters received a number of honors during the spring meeting of the Midwest Section of the American Society for Engineering Education. Mutharaj Vaithianathan, industrial engineering, was given the Dow Outstanding Young Faculty Award. Charles Bissey, architectural engineering and construction science, won the Western Electric Fund Award for excellence in teaching. John O. Mingle, executive vice president of the KSU Research Foundation and professor of nuclear engineering, was voted chairman-elect of the Section.

Rodney Fox, graduate student in chemical engineering, was co-author of the paper which won the first-place award in the humanities, arts and sciences area.

New award presented

Eugene Russell, civil engineering, is the first recipient of the Burns and McDonnell Faculty Recognition Award to the Department of Civil Engineering. The award, which includes a $3,000 professorial supplement, recognizes outstanding teaching, research and service to the University.

Russell has been at K-State since 1974. His areas of specialization include transportation systems, railroad crossing safety and hazardous materials transportation emergencies.

Hollis winner named

Arthur Vaughan, engineering technology, received the College of Engineering's Hollis Award for excellence in undergraduate teaching. The award, which includes a $500 stipend, was presented at the College's graduation exercises. A color portrait of Vaughan will be displayed for the coming year in the lobby of Durland Hall.

Professors share grant

Four faculty members are sharing a $16,000 grant from the Halliburton Education Foundation. Robert Gorton, mechanical engineering; James Koelliker, civil engineering; Harry Manges, agricultural engineering; and Mutharaj Vaithianathan, industrial engineering, will use the funds to expand their teaching and research capabilities. Gorton has been at K-State for 24 years. His research fields are heat transfer, fluid flow, environmental engineering and water quality. Koelliker specializes in hydrology, sanitary engineering, water resources engineering and water quality. He has been at K-State for 11 years.

Manges, a member of the faculty for 26 years, is a specialist in waste management and agricultural water resource use. Vaithianathan joined the faculty in 1981 and specializes in computer-aided manufacturing and engineering economy.

Key research noted

Mark Schrock, agricultural engineering, is one of five K-State professors listed in the 1984 Reporters' Guide to Key Research Activities in Science and Engineering. The directory is compiled by the American Association for the Advancement of Science. Schrock has done extensive research on computerization of tractors.

Officers elected

Charles Spillman, head of agricultural engineering, has been elected a Fellow of the American Society of Agricultural Engineers, a distinction earned by only about 2 percent of ASAE membership. L. T. Fan, head of chemical engineering, was named a director of the American Association for the Advancement of Science. He holds five patents for his research work and is the author of four textbooks and more than 400 technical articles.

Carolee Stark, news editor in the College of Engineering and editor of IMPACT, was elected vice chairwoman and chairwoman-elect of Engineering College Magazines Association. Stark is faculty advisor to the Kansas State Engineer magazine.

James Goddard, architectural engineering and construction science, was elected national secretary of the Associated Schools of Construction, an organization composed of schools and universities with management programs in construction.

Robert Snell, head of civil engineering, was elected district director of the American Society of Civil Engineers. He will oversee activities in the seven states comprising District 16.

George Eggeman, mechanical engineering, is new chairman of the Kansas Section of the Society for Experimental Stress Analysis.

Good advice

Gale Simons, nuclear engineering, was named the College of Engineering "Advisor of the Year." KSU President Duane Acker presented the award during Engineers' Open House. Simons was chosen in an election conducted by Engineering Student Council.

Merrill Blackman, architectural engineering and construction science, was selected as the 1984 University Activities Board "Advisor of the Year." He was nominated by the student chapter of the Associated Contractors of America, Inc.

Travelers

Do Sup Chung, agricultural engineering, was one of six international experts invited to participate in a symposium on post-harvest technology of agricultural products in the Republic of China. The meeting was sponsored by the National Academy of Sciences and the China Committee for Scientific and Scholarly Cooperation with the U.S.A.

L. T. Fan, chemical engineering, was among 11 lecturers on modern applied mathematics in chemical engineering, at the "1984 Holiday and Science on the Rhine" in Bad Honnorf, West Germany. Fan discussed the fuzzy set theory, which he is currently using as a research tool.
Teaching couple at home at KSU

Ruth and Steve Dyer have been dubbed the "new husband-and-wife team" in the Department of Electrical Engineering.

They aren't exactly new—they arrived last fall—not are they the only teaching couple in the College of Engineering. Doris and Louis Grosh have taught industrial engineering at KSU since 1968.

Though women engineers are increasing in number, they are still somewhat of a rarity among engineering college faculty, particularly as the other half of a teaching team.

"There really isn't anything to compete against," says Steve Dyer. "If we thought there would be a problem, Ruth and I would try to complement each other, possibly as a research team."

Neither the Dyers nor the Groshes apparently have any problems working in the same departments. Their teaching and research areas are different, which, they say, eliminates the element of competition.

The Dyers' main concern at the moment is trying to balance the demands of their careers with those of their children, Justin, 3, and Christopher, 1.

"I think we're going through the worst part right now," Ruth said. "But I believe we do a good job of alternating responsibilities. With two children, it takes both of you."

The Dyers had decided before their marriage that they would compromise as job opportunities turned up. For them, a commuter marriage probably would be out of the question.

"I think that, with our personalities, we wouldn't function very well if we lived apart," Steve said. "I don't think either of us would be able to make that sacrifice, particularly with children."

The Dyers believe they have been lucky so far in finding employment in the same town.

"By virtue of the field we're in, we haven't had any problems," Steve said.

The Dyers met at K-State while he was studying electrical engineering and she was a student in biochemistry. Steve later accepted a teaching position at the University of Kentucky. While they were there, Ruth switched to engineering for her Ph.D degree because of her interest in bioengineering. She joined her husband on the electrical engineering faculty at Kentucky when an opening occurred for someone with her background.

Doris Grosh didn't start out in engineering either. She was pursuing a Ph.D in statistics at KSU while her husband was teaching in industrial engineering. The department, she said, "just happened to need someone with my background" about the time she completed her degree.

Seeing a woman in front of the classroom has been a unique experience for some of Ruth Dyer's students, though apparently not a displeasing one.

At Kentucky, she said, "I got teased a lot by the students, but we all had a lot of fun." At KSU, she is amiably referred to as "that woman."

As for Doris Grosh, she has for many years been considered, in her words, "just one of the boys."
Capturing much of the attention at Open House were the International Robomation Intelligence robot, above, currently being used in an interdisciplinary research project in engineering, and a Hero I robot, below, which is being programmed by engineering students for various tasks.

Posing with Dean Donald E. Rathbone are Kevin Hill, electrical engineering senior from Shawnee, and Dana Ginn, senior in mechanical engineering from Glenview, Ill., 1984 St. Patrick and St. Patricia.

A “Rendezvous with KSU”
Open House 1984

Construction science students swept the honors at this year’s Open House, winning the top department and display awards as well as the Yellow Brick Award for most enthusiastic participation in the parade.
Kenneth Henry (CE '41) has been named a life member of the American Society of Civil Engineers. He is a manager at J.A. Tobin Construction Co., Kansas City.

J.R. Hamm (ME '43) has retired from Westinghouse Electric Corp. after 38 years of service. He and his wife plan to move from Export, Pa., to Charlottesvile, Va.

Charles May, P.E. (CE '48) is now senior associate at Wilson & Company, Salina. May supervises civil engineering services. Recent projects include the preliminary engineering approach design for the $20 million West Kansas Avenue Bridge in Kansas City, Kan.

Carroll Nelson (Age '50) and Dallas Freeborn (CE '54) have been promoted to staff associates at Van Doren-Hazard-Stalling, Topeka. Nelson heads municipal and highway design projects. Freeborn specializes in storm drainage, wastewater collection, water distribution and solid waste products.

Larry Burdge (ME '58) is president and general manager of EG&G ORTEC, a major EG&G subsidiary located in Oak Ridge, Tenn. The company produces nuclear radiation detectors and associated electronic modules, instruments and systems. Burdge was formerly president of EG&G Synfuels and has worked for General Electric and Los Alamos National Laboratory.

A. Rodney Gottschalk (NE '59) is president of Geothermal Management, Inc., Santa Rosa, Calif. The company offers a 1/2- to 10-Megawatt turnkey modular power plant as well as related operation and maintenance services. Gottschalk has worked in engineering and marketing for a number of major companies involved in energy technology.

Carl Swenson (ME '59) has achieved the rank of Fellow with the approximately 50,000-member American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. He is among about 340 members who have reached Fellow status. Swenson is design manager for EMC Engineers, Inc., Denver.

Jerry May, P.E. (CE '62), an associate with Wilson & Company, Salina, has been assigned to the company’s Wichita office as head of civil and environmental engineering.

Curt Wann (EE '63) has been named director of programs for Datatronix, Inc., Reston, Va. His son Doug is an engineering student at K-State.

Richard Teichgruber (EE '64, M.S. '66, Ph.D. '69) has been promoted to engineering specialist senior at General Dynamics, Fort Worth Division. His responsibilities include all aspects of avionic systems modeling and simulation.

Kenneth Opdyke (Arch.E. '66) is sales engineer with the Crane Co., Overland Park.

B.R. Nair (EE '69) has been promoted to manager, nuclear disposal technology design, at Westinghouse Electric Corp., Pittsburgh, Pa.

David Beardmore (ChemE '77) is staff engineer in research and development at Phillips Petroleum Co., Bartlesville, Okla.

Grete Brooks (ME '78) was given the Ralph James award for outstanding contributions to the petroleum industry. She is employed by Exxon, where she is primarily involved in research applications for the facilities design section of the company’s Production Operations Division. She also heads two company committees.

Diane Eberly (EET '80) is project analyst with Frito-Lay, Inc., Dallas.

Keith Wagner (ChemE '83) has been elected to the executive committee of Engineering College Magazines. Associated as one of four liaison members from industry, Wagner is a former editor of the Kansas State Engineer and is employed by AT&T, Kansas City.

He left his mark

Fred Townsend (CE '40), Fortuna, Calif., retired in 1970 after 29 years with the Federal Aviation Administration and was invited to join the Society of Airway Pioneers in recognition of his work.

“...I didn't set the world on fire,” he says, “but I do feel I left my mark in a few places.” Here are some of them, as he related in a letter to IMPACT. When you drive Highway 36 between Norcatur and Oberlin, Kan., you are traveling over a roadbed constructed under my watchful eye back in 1940. The old Mississippi River is held within its banks... below New Orleans by 10 miles of levee constructed under my supervision.

“When you fly the friendly skies of the 11 Western states, you are guided and assisted in landing at all major airports by systems installed under my direction.”

“Last year at age 73,” Townsend continued, “I designed and drew the plans for a 2,000-square-foot home, built under my supervision. Which only goes to show that old civil engineers never quit but go right on building.”

Townsend and his wife, Dolores, have named their home Dunmovin Ranch, which, he says, “must mean something.” The couple have a son, Royce, a physicist in California, and a daughter, Marlene Wilmer, of Las Vegas.

It's 126 years old

Great Western Manufacturing Co., Inc., Leavenworth, is celebrating its 126th birthday this year. The company is operated by Jim Schroeder (EE '62) and is among 15 Kansas industrial firms identified as being 100 years old or older. It is also one of at least two that are operated by KSU engineering graduates. The other is Exline, Inc., Salina, as noted in the last issue of IMPACT.

Great Western has been under continuous family ownership for 40 years. Exlines have run the Salina company for more than a century. Bob Exline is president.

What's happening with you?

We'd like to know, and so would your former classmates. Please take a few moments to jot down any job changes, professional or other activities, or any reminiscences you'd like to share. Send to Impact editor, College of Engineering, Durland Hall, Kansas State University, Manhattan, KS 66506.

New nameplate

In case you didn't recognize it, that's Durland Hall on the cover of this issue of IMPACT. The new nameplate is an effort to update the publication and also to reflect the progress that is taking place in the College of Engineering as a result of the new building.
Deaths

Earle C. Byers, 72, emeritus professor of industrial engineering, died April 18.

Mr. Byers graduated from high school in Manhattan and earned an A.B. degree at Greenville (Ill.) College in 1941. He received an M.S. from Kansas State in 1954 and taught at the University from 1946 until his retirement in 1978.

Mr. Byers taught courses in auto mechanics and refrigerator servicing as part of the Industrial Technology Program and subsequently taught classes in various phases of production processes. He spent many of his summers working for industrial firms teaching automotive analysis, and testing and repairing electrical and mechanical equipment. A memorial has been established at the Free Methodist Church in Manhattan.

Vernon H. Rosebraugh, 73, a member of the civil engineering faculty for 25 years, died of a heart attack March 20 in Sun City, Ariz.

A native of Portland, Ore., Mr. Rosebraugh received a B.S. in civil engineering from Oregon State University in 1938 and held an M.S. from the University of Portland.

He taught at Portland from 1949 until he joined the KSU faculty in 1953. He worked for more than 20 summers in the city engineer’s office in Hillsboro, Ore. He retired from KSU in 1978.

Walter F. Robohn, who taught civil engineering at KSU from 1949 to 1962, died in El Paso, Tex., Dec. 15 as a result of emphysema.

Mr. Robohn was a 1947 graduate of KSU in civil engineering and received an M.S. in 1950. He was awarded a master of public health from the University of Michigan in 1963 and an M.S. a year later. After leaving K-State, he worked for the U.S. Environmental Protection Agency in Kansas City, retiring in 1982.

Mr. Robohn also had taught at South Dakota State College and worked for a number of summers for the Kansas Highway Commission.

Alumnus Murlin T. Howerton (CHE '42), Denver, Colo., died Feb. 14. Dr. Howerton, who received M.S. and Ph.D. degrees from Texas A&M, had taught at Notre Dame University and at the University of Denver, where he headed the chemical engineering department. He was a senior staff engineer at Martin Marietta Aerospace from 1966 until illness forced his retirement in 1981.

Gheigholo?

“Gheigholo.” You won’t find the word in the dictionary. It’s another brain teaser from Professor Emeritus Wilson Tripp. He wants you to see how many words you can pull out from this combination of letters.

No fair using the dictionary! Professor Tripp’s answer to census taker puzzle in last issue: 6, 16 and 81.