

Campaign past halfway mark

The College of Engineering has passed the halfway mark in its campaign to acquire \$1 million for the equipping of Durland Hall, Phase II and for related needs.

More than \$550,000 has been received in pledges and contributions since the campaign began in late March of 1981.

"We are very pleased with the response of alumni and friends of the College and from industry," Dean Donald E. Rathbone said. Most of the contributions so far have come from individuals, but Rathbone said that he and campaign leaders have "initiated a lot of contacts with companies and we are hoping they will be equally responsive in 1982 and '83." He said that in many cases decisions on corporate gifts for 1981 had not yet been made by the companies' foundations and boards.

According to James C. Miller, associate director of the KSU Foundation, "We're on schedule with our projections as to where we should be at this point in time."

Rathbone praised the campaign leaders for their efforts. "We've had tremendous support from the committee. As far as I'm concerned, they're the key to our success."

The new building, which is the second stage in construction of the engineering complex, will house the Departments of Electrical and Mechanical Engineering, administrative offices of the Dean of Engineering, a Robotics Laboratory, a Remote Computing Center, a student study lounge and support services of the College of Engineering. The academic departments will move from Seaton Hall.

The College of Engineering will retain the center and west wings and the front connecting wing of Seaton for the Department of Architectural Engineering and Construction Science and the Departments of Engineering Technology, Civil Engineering and Agricultural

Engineering. Most of the remaining space will be turned over to the College of Architecture and Design.

"With a tripling of enrollment in 8 years and the increase in the amount of faculty research, we still need space," Rathbone said. "Phase III, which is planned for the late 1980s, will hopefully solve this problem and complete the complex."

Though the new building will only partially alleviate the need for more classrooms and laboratories, some new programs will be added and better

It's a fact . . .

. . . that the Architectural Engineering program at Kansas State University is one of only nine such programs in the United States that are accredited.

utilization of space will be possible.

"The integration of Computer-Aided Design techniques will be accelerated with the move into the new building," Rathbone said. "CAD is an approach being used extensively in industry. We need to incorporate this into the program in order to keep the students current with industry needs." The Robotics Laboratory, a new addition, reflects another area of rapid growth in the industry, Rathbone said.

The move will make possible a

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Sad news among the glad

Dean Durland dies at age 84

Dean Emeritus M.A. (Cotton) Durland, for whom the new engineering complex is named, died Jan. 3 at the age of 84.

Since his retirement in 1967 after a 59-year stint as teacher and dean, Durland was able to observe the progress and completion of Durland Hall, Phase I and the beginning of construction of the second building named in his honor.

The naming of the Durland Hall complex was "but a token of the high regard and esteem the students, alumni and faculty of the College of Engineering held for Dean Durland, said Dean of Engineering Donald E. Rathbone. "He knew more students, alumni and friends of K-State than anyone I can think of in the history of the college."

Rathbone characterized Durland as "feisty with a good sense of humor." His door was always open to students, Rathbone said. "Although they were sometimes scared to death to go into his office, they always left with an appreciation of his concern for them."

M.A. (Cotton) Durland



Born Jan. 6, 1897, in Centralia, Dean Durland earned a bachelor of science in electrical engineering in 1918 and a master of engineering in 1923, both from Kansas State University. He joined the faculty in 1919 as an instructor in applied mechanics and machine design and became dean of the School of Engineering and Architecture and director of the Engineering Experiment Station in 1949. He returned to teaching in 1961.

During his 12 years as dean, Durland oversaw two major additions to Seaton Hall; the establishment of the Departments of Industrial and Nuclear Engineering; and the establishment of the Engineering Advisory Council.

See Durland, p. 8

Enrollment surpasses expectations

Unexpected growth in the College of Engineering has sent administrators scurrying to accommodate the onslaught of students.

Enrollment figures surpassed the greatest of projections, with nearly 2,800 students listed officially in the engineering curriculum. That represented an increase of 272 students from a year ago.

All-University enrollment reached a record 19,982 for 1981, 435 above last year, when 19,547 students were enrolled. The College of Engineering showed the largest increase.

While engineering enrollment grew at all levels, administrators noted the increase in the number of seniors, nearly 200 more than last year.

Possible reasons were that some seniors didn't graduate on schedule, many students transferred into the College from other disciplines and other universities and a few foreign students chose to remain in school instead of returning to their countries.

According to Assistant Dean of Engineering John Dollar, the increase will create problems in allocating classroom space and instructor time.

"If it's 200 more freshmen, it is not as serious an immediate problem, since those students will be enrolled for the first year in classes in arts and sciences," Dollar said. "However, that is not the case here.

"We'll have to enlarge class sizes insofar as possible," Dollar said. "However, you can't do that very easily for laboratory classes because there are only so many students who can be handled at a given time.

"The implication is to open up more laboratory sections. On the other hand, that is limited by staff," he said. "You

can only ask somebody to do so much teaching."

The College had anticipated a maximum growth peak in the 1980-81 school year, but that number was reached in 1979. Since then, student population has continued spiraling.

The space crunch will be lessened somewhat after completion in 1983 of Phase II of Durland Hall. "Phase II will give us more and better-utilized space," Dollar said. But that, he said, will not alleviate another critical area—the number of faculty members.

"One of the things, unequivocally, we need is more staff . . . if only we could get them in here and pay them salaries

comparable to what they can get in industry."

Resource limitation has promoted engineering administrators to consider establishing an upper limit on the number of students allowed to enter the engineering curriculum.

If there are further sizeable increases without additional instructors, then quality would suffer, according to Dean of Engineering Donald E. Rathbone. "We won't let that happen."

Rathbone emphasized that a number of colleges across the country have begun quota systems. However, such a policy here would be the first for the College of Engineering.

Industry shares education woes

Rising enrollments, lack of state funds for higher faculty salaries and the need for money to update teaching and research equipment are problems facing all engineering colleges, including Kansas State University.

At their fall meeting, members of the College of Engineering Advisory Council discussed how industry might help.

Part of industry's success depends on the quality of the product—students—that the universities are putting out, Chairman Richard Scherer said. "We are deeply concerned about the quality of students and what kind of education they are getting."

On the subject of faculty salaries, Scherer said, "If we don't enhance faculty from the economic standpoint, we're going to lose them. Faculty members should not be penalized for being faculty."

Council member Robert Exline suggested that industry might provide stipends for faculty members. Many are being drawn away from teaching for the same reason that so many students fail to stay on for graduate school: high salaries being paid by industry. The result is fewer experienced teachers and the possibility of a severe lack of qualified educators for the future.

Council members concurred with Rathbone's contention that even though industry can help, "The state still has the responsibility for providing the basic financial support for engineering education."

John Slaughter, director of the National Science Foundation, suggested a "stronger partnership with industry." Slaughter, who was in Manhattan to accept a Distinguished Service Award from the College of Engineering, was a guest at the meeting.

He said that during a recent meeting in Albuquerque, N.M., "I talked about engineering, and found a lot of interest among the participants in the roles that industry might play." They might take the form of in-kind services, salary supplements, tuition grants for graduate students or other types of financial support, he said.

As for budget cuts at NSF, which is the primary federal agency responsible for allocating research funds, Slaughter said, "We will learn to 'work smarter' and to work more closely with industry."

Exxon award

The Exxon Corporation has awarded \$200,000 to the College of Engineering under a special program to assist colleges in developing and retaining faculty members.

The Exxon Faculty Assistance Program, and the award, have been established as part of the company's Centennial celebration in 1982.

Dean of Engineering Donald E. Rathbone expressed his appreciation for the award. "We are grateful for the opportunity to participate in the faculty assistance program. We congratulate Exxon for taking a lead in establishing a fund that will provide support in such an important area."

The money will be used for recruitment, retention and development of faculty in the Departments of Chemical Engineering and Mechanical Engineering. Each department will receive \$100,000, to be paid in annual installments of \$20,000 over a period of five years.



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

Slaughter receives Engineering award

John Slaughter



John B. Slaughter, director of the National Science Foundation, received a Distinguished Service Award from the College of Engineering in October.

A 1956 KSU graduate in electrical engineering, Slaughter was honored for his contributions to science and engineering, to minority groups and to his alma mater.

A native of Topeka, Slaughter was the only black engineering student when he attended K-State from 1954 through 1956.

Immediately prior to his appointment as director of NSF in 1980, Slaughter was academic vice president and provost at University of Washington. He had served as assistant director of NSF for astronomical, atmospheric, earth and ocean sciences from 1977 to 1979.

Slaughter worked for General Dynamics after graduation from KSU and later was employed by the Naval Electronics Laboratory Center in San Diego.

He became professor of electrical engineering and director of the Applied Physics Laboratory at the University of Washington in 1975.

Slaughter has received numerous awards and honors for his professional and civic activities. He is responsible for the development of a number of programs to broaden opportunities for minorities and to encourage minority youths to pursue careers in science and engineering.

Program director named

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, who has directed the program on a temporary basis since it began in 1978, has been chosen to fill the permanent slot. She will continue to work part time in the position while pursuing studies in architectural engineering.

More than 300 of the 2,800 students in the College of Engineering are women. There are approximately

150 minority students enrolled in the College.

Hummel is a 1965 graduate of K-State in home economics and the mother of three children. She taught for three years and then worked in the KSU Division of Continuing Education.

Prior to her appointments in the College of Engineering, Hummel was customer assistance adviser for Kansas Power & Light Co. in Manhattan, where her work included doing energy audits of homes.

College gets NSPE honors

The College of Engineering earned two honors recently from the National Society of Professional Engineers.

K-State was selected as runner-up in competition among colleges of engineering for the 1982 NSPE Educational Professional Development Award. The award is given for outstanding programs to promote the professional development of students and faculty members in engineering. Only two schools were singled out for honors.

Dean Donald E. Rathbone recently accepted another award from the NSPE in recognition of the College's professional employment practices. The award is given for support and development of fair and equitable employment practices under guidelines set by the NSPE and other professional and technical societies. The College was the first organization in Kansas to be so honored.

Elks fund scholarship

The Past Exalted Rulers of the Manhattan Elks Lodge—1185 have established a scholarship fund to benefit students in the College of Engineering's construction science area.

The scholarship is intended to pay tribute to Ira Wheeler, a long-time member of the organization. Wheeler has been active in construction in Manhattan.

The award will be presented each semester to a student meeting the qualifications stipulated by the donor, including a minimum grade point average of 2.5 and proven financial need. The scholarship will provide one semester's tuition fee and is renewable.

"The human mind, once stretched to a new idea, never goes back to its original dimensions."

—Oliver Wendell Holmes

College joins program

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.

The program combines undergraduate scholarship assistance with summer internships at Caterpillar and a grant to the participating student's department.

Participating schools are selected on the basis of the quality of their programs and on the quality of their graduates employed at Caterpillar. Under the program, the student's full tuition and fees, plus an annual book allowance, are paid by the company.

Award established

The family of K.K. Hu, professor of civil engineering, has established an award of \$200 for outstanding students enrolled in courses in the Department of Civil Engineering.

Hu said the award is a memorial to his mother, Mrs. Pei-Yu Hu. Each semester, \$100 will go to the student who exhibits the best performance on the departmental exam in "Statics." Another \$100 will be given for best performance in "Mechanics of Materials."

Hu said the award is being given to recognize outstanding students and motivate students to superior performance.

Faculty notes

Donald E. Rathbone, dean of the College of Engineering, has been elected to the executive committee of the Engineering College Council.

The seven-member committee provides leadership to the council on national issues affecting engineering colleges in such policy areas as enrollments, equipment, research and hiring of faculty members. The council is comprised of approximately 300 engineering deans in colleges throughout the country.

William H. Johnson, director of the Engineering Experiment Station, has been named "Outstanding Engineer of the Year" by the Kansas Section of the American Society of Agricultural Engineers. He also has been elected secretary/treasurer of the Kansas Engineering Society.

Johnson joined the K-State faculty in 1970 as professor and head of the Department of Agricultural Engineering.

See Faculty, p. 8

Spotlight on the students

AGC chapter tops

Service to the community helped win a national first-place award for construction science students in the College of Engineering.

The students, members of the Associated General Contractors, won the national organization's Outstanding Student Chapter of the Year designation for 1981. The first-place award was the second in three years for the chapter.

Among the activities that helped the students win the most recent award were an Engineers' Open House project on passive solar energy, which was the Outstanding Display in the College; design of a greenhouse and installation of concrete steps and retaining walls at Meadowlark Hills retirement center in Manhattan; construction of a waiting shelter for students in Ogden; and design of a "Welcome to Manhattan" sign for the Manhattan Optimist Club.

Chapter adviser is Merrill Blackman, associate professor of architectural engineering and construction science. AGC adviser is Robert Sloan of Green Construction Co. in Manhattan.

SME organizes

Vigorous efforts by engineering students have resulted in creation of a student chapter of the Society of Manufacturing Engineers, according to Carl Wilson, associate professor of industrial engineering and faculty adviser to the new organization.

The student chapter will enable K-State members to meet professionals, hear lectures, see films and take tours of industrial plants.

Auxiliary more than just a 'spoof'

In the College of Engineering, women students call upon the men to help out with such activities as fund raising, cooking and flower arranging.

Gordon Derr, a graduate student in civil engineering, calls it "sort of a spoof" on women's auxiliaries. But as organizer of a men's auxiliary to the K-State chapter of the Society of Women Engineers, he takes his duties seriously.

He has recruited seven other male students to "help the women out whenever they have something for us to do. We're not in any way trying to take

Conoco Scholarship

David Geist, senior in industrial engineering from Topeka, has been awarded a \$1,000 scholarship by the Conoco Corporation.

Geist received the scholarship after a summer internship with Continental Pipeline Co., a subsidiary of Conoco. He was one of four summer interns nationwide to be given the scholarship.

Graduate wins award

A 1981 Kansas State University graduate in civil engineering, Michael J. Scully, Overland Park, has received a merit award in the 1981 James F. Lincoln Arc Welding Foundation's Student Engineering Design Competition.

Scully won recognition for a "Model Study of Composite Beams with Web Openings" which he prepared as a senior honors project under the direction of Peter B. Cooper, professor of civil engineering.

Golden Key award

James A. Crotinger, a senior in nuclear engineering from Great Bend, is one of two Kansas State University recipients of \$250 Golden Key National Honor Society scholarships for 1981-82.

Golden Key was established to recognize and encourage scholastic achievement and excellence among juniors and seniors. The scholarships are based on scholastic achievement, leadership and service to the community.

over the organization."

As one of their first projects, the men donned aprons and cooked for a SWE pancake breakfast. They also helped the women sell notebooks as a fund-raising project. And they made the arrangements and served as hosts for a SWE banquet.

Derr admitted that the opportunity to "meet all of those women" was part of the appeal of the men's auxiliary. "We're doing this mainly to enjoy ourselves and to help them. Besides, it's not much fun to have a party with 50 women and no men," he said.



SO THAT'S HOW IT WORKS—David Stauffer, freshman from Wamego, thinks he has figured out the mechanism of a device given to him by Prof. Dwight Nesmith in Engineering Concepts class. Instead of building models from scratch, students in the class are learning engineering principles by taking objects apart and putting them back together again. It's an idea developed by Phillip Kirmser, professor of electrical engineering.

AGC Scholarship

Dirk Cott, sophomore in construction science from Leavenworth, has received a \$1,500 scholarship from the Kansas City chapter of the Associated General Contractors of America. The scholarship, given for the first time, is a memorial to the late W.W. Hutton, a past president of the chapter.

Study center proposal brings \$20,000 award

A proposal for a study center for minority engineering students has led to a \$20,000 award for the College of Engineering.

The College was one of 11 engineering schools throughout the nation chosen to receive the award from the National Action Council for Minorities in Engineering (NACME). Selection was based on proposals to improve the retention rate of minority students.

According to Dean of Engineering Donald E. Rathbone, the funds will be used to help support staff members for the center, and for computer terminals, furniture and other supplies. The study center will be located in the College of Engineering.

The NACME will disseminate information on the K-State program and those of other award winners so that all schools of engineering may benefit from their experiences in minority retention, Rathbone said.

Minority students in the KSU College of Engineering now number more than 100, Rathbone said.

Boeing named 'Company of Year'

The Boeing Military Airplane Co. of Wichita was honored in November as "Company of the Year" by Tau Beta Pi, student engineering honor society.

Three officials from Boeing spent the day on the campus participating in a series of programs and accepted awards from the society during a banquet in the K-State Union.

"We've been a big supporter of K-State," said Donald R. Chesnut, director of the B-52 program at Boeing and a 1950 graduate in electrical engineering.

"A significant justification for build-up (in Wichita) is because K-State is in the area and can provide us with graduates and engineering support," he said.

Chesnut spoke for Lionel D. Alford, president of the Wichita-based military division. Alford was unable to attend as scheduled because of surgery.

Also present were Wendell J. Newell, manager of the Military Training Systems Program and a 1962 electrical engineering graduate, and Richard D. Scherer, business development manager for BE&C Engineers, Inc. of BMAC. Scherer is chairman of the College of Engineering Advisory Council.

The honorary society award is "really a significant one that we'll cherish for many years," Chesnut said, adding that K-State staff and students make for an "outstanding university."

The award is given annually to a company which has expressed strong support of education, commitment to the engineering profession and interest in

the K-State engineering program.

Chesnut said K-State could be very useful in supplying engineering graduates to supplement present staff as Boeing operations in Wichita continue to expand.

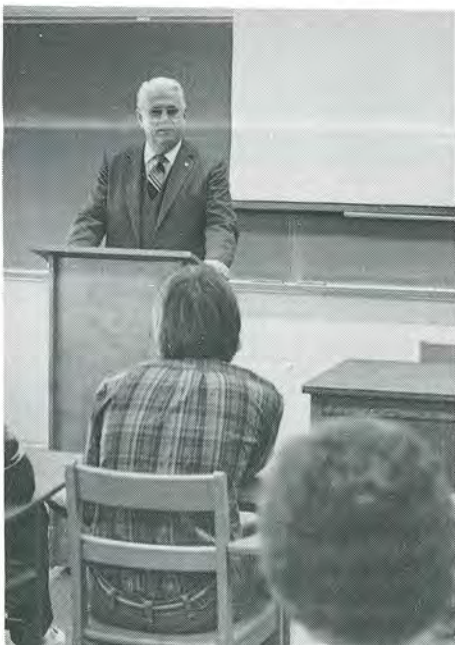
Boeing of Wichita has purchased about 750 acres and has expanded building work area to eight million square feet to meet the needs for continued commercial aircraft production and military operations.



Donald Chesnut accepts awards from Dennis Wike, president of Tau Beta Pi.



Michael Lucas, professor of electrical engineering, demonstrates one of his research projects during a tour of the College of Engineering facilities. Looking on are Wendell Newell, Donald Chesnut and Richard Scherer.



Richard Scherer tells students about the Boeing Military Airplane Company and about life as a practicing engineer.



Wendell J. Newell, left, and Donald R. Chesnut reminisce about their student days at Kansas State University while looking over photos of their graduating classes.

Here's news from Engineering alumni

Franz Maas (ME '21) is in retirement in Portland, Ore. Still an active alumnus, Maas recalls with pride that he was the oldest in the group at an alumni meeting several years ago in Beaverton. Maas worked most of his adult life for Bonneville Power Authority.

Earle L. Kent (EE '35, M.S. '36) is living in Elkhart, Ind. He does computer systems engineering and programming as a consultant for Oaklawn Psychiatric Center, where he was employed from 1970 to 1975. Kent received a Distinguished Service Award from the College of Engineering in 1966 and in 1967 was honored with the Sesquicentennial Award from the University of Michigan, where he received his doctorate.

After leaving K-State, Kent taught until 1940, when he joined C.G. Conn, Ltd., directing the research, development and design of musical instruments until 1970.

Bruce E. Roberts (CE '39) and Nathan B. Butcher have retired as executive partners of Wilson & Co., engineers and architects, Salina. Three KSU engineering graduates are among seven persons who will own and operate the firm as a partnership. They are **Robert L. Baier** (CE '48), **Robert F. Sykes** (CE '52) and **Craig A. Roberts** (CE '69). Roberts and Butcher will remain with the company as consultants.

Ross Doyen (AgE '50) served during the past year as president of the National Conference of State Legislatures. Doyen, a Republican from Concordia, is president of the Kansas State Senate.

Col. Harvey J. McCarter (EE '56), Overland Park, has been awarded the Meritorius Service Medal for Outstanding service as vice commander, 442nd Tactical Airlift Wing, Richards-Gebaur AFB, Mo. An Air Force Reservist, McCarter has received numerous other decorations and awards for active and reserve service since 1956. He is

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Dean of the College

Dr. Donald E. Rathbone

Director, Engineering Experiment Station

Dr. William H. Johnson

Impact Editor

Carolee Stark

Gary Edwards



currently a pilot for Trans World Airlines.

Gary W. Edwards (CE '63) has been named general manager, North American marketing operations, for Conoco, Inc., Houston. An employee of Conoco since leaving K-State, Edwards was formerly general manager, division operations for North American marketing.

Victor Morales (M.S., IE '67) is president of AGROMAK, a Mexico City firm which manufactures farm implements. He was keynote speaker in November for a conference in Manhattan on Mexico-U.S. trade sponsored by the International Trade Institute at K-State.

Karl J. Svaty, Jr. (CE '68) is senior bridge engineer with Professional Engineering Consultants, P.A., Wichita. He was formerly Harvey County Engineer.

Craig Roberts (CE '69), a partner in Wilson & Company, engineers and architects, Salina, was selected by the Kansas Engineering Society as "Outstanding Young Engineer" for 1980-81. Roberts won the award on the basis of professional integrity and reputation as well as for activities in professional and civic organizations.

John George (AgE '69, M.S. '70) has been named "Outstanding Young Engineer of the Year" by the Kansas section of the American Society of Agricultural Engineers. George is president of Agricultural Engineering Associates, a consulting firm in Uniontown, and is currently chairman of the Structures and Environment Division of the ASAE.

David G. Larson (ME '71), Harrisonville, Mo., has been promoted to Associate at A.C. Kirkwood & Associates, engineering and consulting firm based in Kansas City. He is involved in power, HVAC and piping system design.

David Everitt (IE '75) has been named manager, Industrial Engineering, a newly created position at the John Deere Foundry, Waterloo, Iowa. He was formerly section leader for assembly lines at John Deere Harvester Works in East Moline, Ill.

Gary A. Schneck (ME '75, M.S. '76)

is group leader, Process Control Group, at Celanese Chemical Company's Pampa, Tex., plant. He recently presented a guest lecture to a Purdue University chemical engineering class on "Application of a Computer-Based Process Control System." The lecture was sponsored by the Celanese Corporation Speaker's Bureau.

Jerry Harkey (ME '76, M.S. '78), Troy, Mich., is with Chrysler Corp., Highland Park, working on the turbocharger engine.

David M. Janssen (CE '77), environmental engineer with Wilson & Company, engineers and architects, Salina, was named "Outstanding Engineer in Training" for 1980-81 by the Kansas Engineering Society. The award recognizes Janssen's progress in professional development and his contributions to the civic, technical and professional interests of the engineer. He was selected as "Outstanding Senior Engineering Student" while at K-State.

Deaths

Dwight Koontz (ME '52), Sacramento, Calif., in August, as a result of an automobile accident.

Merle E. Schwab (CE '49), Manhattan, in June, of an apparent heart attack. Mr. Schwab was a partner and co-founder of Schwab-Eaton, consulting engineers. Active in the Riley County Republican Party, Mr. Schwab also was a leading figure in the establishment of the KSU-Manhattan Track Club. His interest in track extended to major activities in track stadium construction and the authorship of a book on the subject.

Remember . . .

. . . when you were in school and you read the Kansas State Engineer to keep up on what your faculty members and classmates were doing? If you'd like to know more about what interests today's students, you might want to subscribe to the magazine. Subscriptions are \$5 per year for five issues, or \$12 for three years. Send your check to: K-State Engineer, Seaton Hall, Kansas State University, Manhattan, KS 66506.

The magazine is also seeking more advertising. Current rates range from \$200 for a full page to \$40 per issue for an ad in the Professional Directory. For a rate card and other information, write to the Business Manager, at the above address.

College welcomes new faculty members



Malone



Mayo



Amoapin



Yaege



Vaithianathan

The College of Engineering added five new faculty members in the fall. Mark S. Malone and Michael Mayo are teaching in the Department of Architectural Engineering and Construction Science. Jonas Amoapin and Margaret Yaege have joined the Department of Engineering Technology, and Muthuraj Vaithianathan is new in the Department of Industrial Engineering.

Malone is a 1978 KSU graduate in architectural engineering and will teach in the areas of lighting and thermal systems. He is a former project design engineer for Latimer, Miller, Sommers and Wallace, a consulting engineering firm in Topeka.

Mayo, who holds bachelor of architecture and master of business degrees from K-State, will teach in architectural engineering design and construction science. He is a former employee of Wilson & Company, Salina, and is a Licensed Professional Architect.

Amoapin joined the faculty after a two-year stint with the Boeing Company, Seattle, as an electronics design engineer. He has degrees from the University of Rochester and the Rochester Institute of Technology, and a Ph.D from Oregon State University.

Yaege is returning to the campus after two years with Arco Pipe Line Co. A

1979 graduate in mechanical engineering, she is working on a master's degree in that department and has teaching responsibilities in the mechanical engineering technology area.

Vaithianathan received a bachelor's degree in mechanical engineering from the University of Madras, India. He will teach industrial project evaluation and numerical control. He is completing his Ph.D at Iowa State University, where he received a master's degree in industrial engineering. He has been employed in research and as a consultant in industry.

Open House set for March 26-27

"Engineers Meeting the Challenge of Change." The students at Kansas State University are, and they're getting ready to tell you about it, at Engineers' Open House, March 26-27.

In addition to student displays throughout the College, there will be two contests for high school students, an alumni luncheon and the Engineers' Open House Awards Banquet.

Engineering students are providing a new challenge to high school youths this year in "Willie's Windmill Design Contest." The students must design and build a windmill that will lift a one-pound weight straight up into the air. The winning design will be the one that does this in the shortest amount of time.

The "Great Ramp Scamper Contest" will be back again for the third year. This will involve the design of a powered vehicle that can climb up a wire screen in the shortest time.

Open House activities, held in conjunction with all-University Open House, will begin with a parade at noon Friday, March 26. Displays will be open from 5:30 to 9 p.m. and again from 9 a.m. to 4 p.m. Saturday.

All-University activities will include a variety of musical entertainment, tours and academic displays throughout the campus.

We'll be looking for you March 26-27, and hope you can attend the luncheon and banquet. Fill out the form below for reservations.

PLEASE RETURN THIS FORM TO:

ALUMNI RESERVATION FORM

Donald E. Rathbone
Dean of Engineering
116 Seaton Hall
Kansas State University
Manhattan, KS 66506

Please make the luncheon check payable to Cotton's Plantation and the banquet check to the K-State Union

- () I plan to attend the Engineering Alumni Luncheon on Saturday, March 27, 1982, and have enclosed my check for _____ tickets. (\$4.00 per person) (Contributors to scholarship funds and other funds and activities administered through the Dean's Office are invited as guests of the College of Engineering.)
- () I plan to attend the Engineers' Open House Awards Banquet on Saturday, March 27, 1982, and have enclosed my check for _____ tickets. (\$5.75 per person)
- () I will attend the social hour function at the Ramada Inn. Please reserve _____ places for me.

NAME _____

ADDRESS _____

PHONE _____ DATE _____

Campaign, from p. 1

second Remote Computing Laboratory. The lab in Seaton will be retained because of the increased use of computers throughout the College.

Also to be added is a student study lounge, which had been eliminated after the initial proposal for the building because of funding considerations. The 1,728-square-foot room will be an addition to the corridor space connecting Phases I and II of the Durland complex. Rathbone estimates that \$150,000 will be needed to furnish the lounge with seating, study carrels, special window and wall treatment, tables, lighting and carpet.

Equipment needs for various other laboratories will cost in the range of \$75,000 to \$150,000 for each lab, Rathbone said. Information is available from the College on 100 or so specific areas in which funding is needed.

With the new building, Rathbone said, "Our students will have basically one of the finest facilities in the country. Funding from the campaign will hopefully allow us to make significant strides in bringing our labs up to date by 1983. Unfortunately, departmental needs, such as endowed professorships, plus equipment requirements for teaching/research laboratories, total \$3 million."

Keeping up with the changing needs in lab equipment is an "ongoing, never-ending challenge," Rathbone said. "We still need more support from the state in this area. The state has never really realized the needs we have for equipment in engineering."

As for maintaining the overall quality of the program, he said, "The campaign is a step in the right direction."

Durland, from p. 1

One of his primary concerns was to retain an excellent faculty.

"Probably the faculty is the most important factor in any school," Durland had said.

"This is true whether you judge a faculty by academic training, by text books written, by research carried on, by the graduates, or by committee appointments and offices in national and local professional societies or special honors and achievements," he said.

Outside of engineering, Dean Durland was best known for his activities in athletics. He served on K-State's Athletic Council for 25 years. He was chairman from 1957 to 1965 and also was a past chairman of the Big 8 Conference faculty representatives.

He was a registered Professional Engineer in Kansas and held memberships in numerous honorary and professional societies.

In 1977, Dean Durland was awarded the College of Engineering's Distinguished Service Award.

He is survived by two daughters, Audrey J. Emmons, Sausalito, Calif., and Mary Lee Kind, Thousand Oaks, Calif.; and three grandchildren. His wife, the former Lorna M. Boyce, died in 1976.

The M.A. Durland Scholarship Fund has been established with the KSU Foundation in his memory.

Faculty, from p. 3

Stuart Swartz, civil engineering, has been elected a Fellow of the American Concrete Institute.

Currently first vice president of the Society for Experimental Stress Analysis, Swartz will assume the national presidency of that organization in May.

Robert L. Gorton, mechanical engineering, has been named a Fellow in the American Society of Mechanical Engineers.

Stephan A. Konz, industrial engineering, has been selected as a Fellow of the Human Factors Society.

Corwin Bennett, industrial engineering, has been elected a director of the Illuminating Engineering Society of North America.

Richard Faw, nuclear engineering, has been elected to a three-year term as chairman of the Education Division of the American Nuclear Society.

John Mingle, nuclear engineering, has been admitted to the Kansas Bar.

L.T. Fan, professor and head of the Department of Chemical Engineering, has been appointed U.S. editor of the Springer Verlag *Biotechnology Series* and regional editor of *Particle Science and Technology*.



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