

Work Underway On Durland Hall

Work orders have been issued, and construction begun on Kansas State University's new \$2,851,000 chemical and industrial engineering building.

The new building, which is to be named in honor of M. A. Durland, dean emeritus of engineering at KSU, is to be erected on the football practice field just west of Seaton Hall, K-State's engineering building.

Bids for the new structure were called in January, and were held open when they exceeded the \$2.7 million authorized for the project by more than \$400,000.

The Kansas Legislature, in its closing days, authorized KSU to spend up to \$150,000 from sponsored research overhead funds and to spend an unlimited amount of money on the project. And the legislature authorized the Director of Architectural Services to negotiate with the low bidders to see if a contract might be awarded with funds available.

KSU has earmarked \$100,000 for the project from sponsored research overhead funds, and has \$51,000 available from gift funds, making \$2,851,000 available to the project.

"The new chemical and industrial engineering building is to be built essentially as planned," said Dr. Paul Young, vice president for development. "We were able to get within available funds by such things as reducing the amount of site preparation; by making changes in specifications, such as changing from copper to aluminum wiring; and by planning to delay the finishing and equipping of some of the areas of the building.

Although it will be several weeks before final contracts are drawn and signed, Young said construction would begin in early May. He said the general contract had been awarded to Casson Construction Company, Topeka, mechanical contract to Western Mechanical, Topeka, and electrical contract to Acker Electric, Inc., Manhattan.



DEAN EMERITUS M. A. DURLAND who headed the college of Engineering and Architecture (1949-1961) turned the first shovel of dirt during April 29 groundbreaking ceremonies held in a heavy downpour. Ground was broken for the new \$2,851,000 Durland Hall (chemical and industrial engineering). Some 150 persons — including his two daughters from California, Audrey Emmons and Mary Lee Kind — braved the rains for the ceremony. Dean Durland was honored at a luncheon following the 11 a.m. ceremonies.

Teddy Hodges Promoted To Associate Dean Post

Dr. Teddy O. Hodges, an engineering professor with strong teaching and research credentials, has been elevated to associate dean of the College and director of KSU Engineering Experiment Station.

Hodges, a member of the K-State engineering faculty since 1959 and winner of two teaching awards during 1972-1973, succeeds Dr. Cecil H. Best as associate dean. Best has returned to full-time teaching and research.

Prof. Dwight A. Nesmith, acting experiment station director in 1968-1969 and its director since July, 1969, is the new director of the KSU Engineering Cooperative Work-Study Program.

As associate dean, Hodges "is a catalyst for ideas, coordinates proposal writing and serves as an interface between the faculty and outside funding agencies and organizations," noted Rathbone.

Under Nesmith, the cooperative work-study program "has become a bigger part of our operation," according to Rathbone. Nesmith has extensive experience in university-industry relations.

"Dr. Best was very helpful to me in my introduction to K-State and has been most effective during his tenure as associate dean," commented Dean Rathbone who came to K-State in August after serving as professor and head of electrical engineering at the University of Idaho, Moscow.

Best became associate dean of engineering at K-State in fall 1967 under the former dean, Dr. Ralph G. Nevins.

Start Dean's Award Program For Kansas High Schools

A special Dean's Award program at all Kansas high schools has been announced by Dr. Donald E. Rathbone, dean of engineering at K-State.

Under the awards program, the outstanding senior in mathematics and science at each high school will receive an attractively bound Dean's Award Certificate from the K-State dean of engineering.

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**1975 OPEN HOUSE
APRIL 11-12**

Develop Model For Pole Vaulting

Imagine a pole-vaulter soaring over the 20 foot mark to set a new world's record. Impossible? No, it's not even improbable, according to Dr. Philip G. Kirmser and Dr. Hugh S. Walker of the engineering faculty at K-State.

Kirmser and Walker began working on a mathematical model of pole-vaulting five or six years ago. Their findings were reported recently at the Mechanics in Sports Symposium in Detroit.

"We have discovered some exciting things," Kirmser said. "The world's record of 18 feet, 5¾ inches appears to be far below what it should be, for one thing," he said. "Another thing is that the type of person who should do this kind of jumping should be a gymnast because there is a lot of tumbling involved."

The K-State engineers first became interested in the mathematical model when a Salina company asked them to test some pole-vault landing mats. "Then we found out that they made fiber glass poles and we got excited," Kirmser said.

"We don't think the best pole has been made yet," he explained. The poles need to be more flexible than the fiber glass poles now used and able to bend more without breaking.

The pole-vault model, a computer program of the equations describing the actions of both the man and the pole, determines the length of time and the height of jumps on the basis of how much "give" different poles have, the length of the pole, and the vaulter's actions.

Black & Veatch Lecture Series Held in Nuclear Engineering

A Spring 1974 series of lectures on nuclear and electric power engineering by consulting engineers employed by Black and Veatch of Kansas City lent real-world expertise for students in a "Nuclear Reactor Technology Class" in the department of nuclear engineering.

"Reactor Siting" and "The Environment" are topics being considered in the seven-lecture program.

"The lectures give students a better background. They learn what to expect once they're working," said Dr. John O. Mingle, Black and Veatch Professor of Nuclear Engineering.

A. Einar Swanson and Earl O. Smith of Black and Veatch began the annual lecture series in 1969. K-State and Black and Veatch have maintained a working relationship since. Dr. M. John Robinson, one of the Black and Veatch lecturers, served two years on the K-State nuclear engineering faculty before joining Black and Veatch two years ago.



THE NEW ADMINISTRATIVE ALIGNMENT IN THE KSU College of Engineering includes Dr. Donald E. Rathbone (seated right), dean; Dr. Teddy O. Hodges (seated left), associate dean, and director, Engineering Experiment Station; Dr. Kenneth K. Gowdy (standing left), assistant dean; and Prof. Dwight A. Nesmith (standing right), director, KSU Engineering Cooperative Program.

Potpourri . . .

'Demand Is Tremendous' For Engineering Grads

By Donald E. Rathbone

We are implementing a new awards and scholarship program this year at KSU. The outstanding high school senior in mathematics and science in each school in the state will be recognized with an attractively bound certificate and will become a candidate for \$300 scholarships established specifically for this program. The student must, of course, elect to continue his education in the College of Engineering at KSU. We are hoping to get support for the scholarships from both individuals and private companies.

The faculty of the College of Engineering has also been active visiting the high schools and speaking at other organizations in the state. We have typically presented programs on various aspects of the energy crisis. Of course, we also mention engineering, and K-State in the process, particularly when at the high schools. If we could be of service to you in your community, please let us know. We'll do our best to schedule a visitation.

We have received an "interesting" letter or two concerning some of our publicity about employment in the engineering field. Hard as it may be to comprehend, apparently some people just don't believe us when we tell them that the demand for the engineering graduates is tremendous. So, in an attempt to put this issue to bed, let me quote from some well-respected sources:

A recent report of the College Placement Council stated that for 1972-73 "a heavy demand for candidates in technical disciplines was evident." The engineering

graduate received the highest starting salary of all fields.

"Contrary to a general public conception, a serious shortage of engineers is developing in the country. Enrollments at engineering schools have been declining over the past few years, and educators and manpower experts are now warning that key industries—and the economy as a whole—will be hit within two years by a crisis." (New York Times, March 11, 1973)

"There is almost universal agreement that engineer shortages will worsen and become chronic in the years ahead. A Labor Department project indicates a severe pinch around 1980 . . ." Wall Street Journal, November 13, 1972)

While the overall demand for engineering graduates is excellent, there is an extremely strong demand for women and minorities graduates. Industrial firms are literally scouring the country to identify and recruit qualified women and minorities engineers. This situation is expected to continue for many years.

Dean's Club Membership Up To 73

48,000 NEEDED FOR WARD HALL

Mrs. Elnora Seaton, Manhattan, Kan., widow of the late Engineering Dean Emeritus Roy A. Seaton (1920-1949) of K-State, and Dr. Robert R. Snell, CE '54, professor and head of civil engineering at K-State, are the newest members of the Engineering Dean's Club at K-State. Members of this club agree to contribute \$500 to the College of Engineering within five years.

This brings the membership in the Dean's Club to a total of 73.

The College has received numerous matching gifts from KSU engineering alumni employed by firms with alumni matching gifts programs. You can double the size of your gift if you work for such a firm or agency.

Among companies which have matched gifts recently: Abbott Laboratories, AT&T, Bendix Corp., Cities Service Foundation, Cummins Engine Co., Dow Chemical, Downing, Exxon, General Cable Fund, General Electric, B. F. Goodrich, Gulf Oil Foundation, Hercules, Honeywell Fund, Humble Oil, IBM, Koppers Foundation, Motorola Foundation, National Cash Register, Oklahoma Gas & Electric Co. Foundation, Panhandle Eastern Pipeline, Co., Peabody Galion Corp., Phillips Oil, Standard Oil (Indiana), and United Aircraft.

Dr. James K. Koelliker, AgE '67, a new member of the KSU agricultural engineering faculty, has joined the \$/Year² Club. Members of the Dollar-Per-Year-Squared Club—with more than 600 members—agree to pay annual dues of \$1 for each year which has elapsed since graduation from K-State.

Three alumni — M. E. Miller, AgE '42; W. R. Sachse, CE '40; and Roger B. Wilcox, ME '55—have made contributions to the Ward Hall (Nuclear Engineering) Mortgage Fund.

Another \$48,000 must be raised to pay off an internal loan to complete the funding of the addition of Ward Hall. Hopefully this amount will be contributed in the near future.

"During the coming year," says Dr. Donald E. Rathbone, KSU dean of engineering, "we would like to double the membership of the \$/Year² Club and increase the number in the Dean's Club."

Perhaps this is an appropriate time to begin your financial support of K-State engineering. If you wish to join either the Dean's Club and/or the \$/Year² Club, or

KSU ENGINEERING ALUMNI NEWS WINTER-SPRING 1974



1973-74 WESTERN ELECTRIC SCHOLAR — Doug Fowler (right), sophomore in EE from Centralia, Kan., is the 1973-74 Western Electric Scholar at K-State. He received his award certificate and \$575 scholarship from Larry Jones (center), EE '60, of WE's plant in Lee's Summit, Mo. KSU President James A. McCain (left) spoke at a luncheon in Fowler's honor.

ALUMNI NEWS

CLASS NOTES . . .

Fred H. Schreiner, CE '10 (P.O. Box 1128, Rolla, MO 65401); formerly senior engineer appraiser for Farm Credit Administration, assigned to Federal Land Bank of St. Louis. Retired in 1955 after 36 years of government service.

Charles A. Leech, EE '13 (643 N. Market St., Shawnee, OK 74801); construction engineer with U.S. government before retiring. Married Verna M. Rumbel, HE '13, who died last September. Keeps busy with retirement activities. Hopes to return to K-State for class reunions.

Shelby G. Fell, EE '15 (86C Nassau Road, Jamesburg, NJ 08831); died July 1, 1973 following a long illness. Survived by wife, Frances, '17, a daughter and a son. Worked for Western Electric from 1928 until retirement in 1957. After retiring, he and his wife traveled extensively over the U.S., Europe, Africa, Iceland and the Scandinavian countries.

George H. Bush, EE '22 (Rt. 1 Ozark Acres, Williford, AK 72482); retired and living in Arkansas Ozarks since

make a contribution to the Ward Hall Mortgage Fund, please make your check or money order payable to the KSU Endowment Association and mail to:

Dean of Engineering
Kansas State University
Seaton Hall
Manhattan KS 66506

We hope to hear from you soon.

Aug. '71 and doing part-time sales work. Wife, Helen, and he celebrated 50th anniversary in 1973. Three children, seven grandchildren.

Maurice B. Franklin, EE '30 (4011 Mississippi St., San Diego, CA 92104); retired from U.S. Post Office as Supt. of Postal Services. Active in Wesleyan Church. "Great to feel one has a small part in Christian work, which is needed to back up the great scientific advances God has made possible — Psalms 37:4-5."

Harold C. Stevens, AgE '30 (1322 S. Poplar, Ottawa, KS 66067); retired May 1, 1973 as engineer for the Division of Water Resources, State Board of Agriculture, Topeka. Three daughters.

Elmer J. Branham, EE '31 (3417 Mayfair Drive, Sacramento, CA 95825); retired from U.S. Bureau of Reclamation, Department of Design & Construction, in June '73 after 32 years of service. Married, two daughters.

Zint E. Wyant, Jr., CE '32 (4501 W. 74th Place, Prairie Village, KS 66208); engineer with Black & Veatch in Kansas City, after 16 years with Kansas Highway Commission and 24 with Harrington & Cortelyov, Kansas City. Two daughters.

Howard L. Kipfer, CE '32 (9526 Lee Blvd., Leawood, KS 66206); joined Black & Veatch in '46; although eligible for retirement, plans to stay another year to work on energy situation. He sends word about several classmates.

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ALUMNI NEWS COUPON

Be sure to fill out the cut-out coupon imprinted in this issue of the KSU Engineering Alumni News. We'd like to hear from you, find out what you're doing, and print the information you provide us in the next issue of this newsletter so that your KSU classmates and friends can keep up on your activities. Send us a head and shoulders photo too if one is available.

ALUMNI NEWS

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Albert D. Kipfer, EE '1493 Coolidge, Wichita, KS 67201; retired from Boeing in 1969.

Mrs. Dale N. Klemp, EE '32 (Box Y, Thunderbird CC., Ranch Mirage, CA 92270); sends new address; member, \$/Year² Club.

Jewell R. Benson, ME '33 (1628 Glencoe St., Denver, CO 80220); consulting bituminous engineer, private practice 21 years. Inventor with over 20 patents mostly pertaining to asphalt and plastics, processes, materials and uses. Married, two daughters, son and three grandchildren.

Leslie M. Bryson, CE '33 (301 Third Ave., Wilmington, DE 19804); retired Dec. 31, 1973 from Hercules Research Center, Wilmington, after 40 years service in Analytical Division. Past 30 years has been coordinator of test methods and interlaboratory standardization among various plant control labs.



Howard Kipfer



W. R. Sachse

Orville A. Noell, EE '33 (1313 West Oak Street, Rogers, AK 72756); retired March 30, 1973 as a professional engineer with Lake City Army Ammunition Plant, Independence, Mo. He and his wife moved to Arkansas Dec. 15 to enjoy retirement years. Two children.

William P. Simpson, CE '34 (2115 Walnut Street, Harrisburg, PA 17103); engineer with Gannett, Fleming, Corddry, and Carpenter, Inc. in Harrisburg, 28 years. Education secretary for the American Association of Teachers of Esperanto.

Roy D. Crist, AE '35 (Rt. 2, Box 29, Brewster, KS 67732); married Leona Woodward, fs '35, four children — three daughters living. Self-employed farm manager; recently retired as Lt. col., US Air Force Reserve; 1974 Goodyear Award as outstanding Conservation Farmer. Last fall he and his wife toured 24 eastern states and one Canadian Province.

L. D. Grubb, ChE '38 (McLean, VA 22101); recently appointed chief, chemical division, U.S. Tariff Commission. Married, two sons, two daughters.

Gerald M. Boatright, ME '39 (Annandale, VA 22003); worked for Naval Ships System Command almost 34 years in power plant design and application; in project office monitoring design construction of 30 new destroyers building at Pascagoula, Miss. New member, KSU \$/Year² Club; native of Lone Elm, Kan.

John Franz Gaumer, EE '39 (1606 Althea Dr., Houston, TX 77018); died December 11, 1973.

Fred J. Galvani, CE '40 (46 Kenmore, Council Bluffs, IA 51501); president and chairman of the board, McCollister & Co., president of Red Giant Oil Co., president of Galvani & Associates, president of G&A Marketing Inc., chairman of the Board of Directors of Searle Petroleum Co., owner and operator of 3-G Ranch; wife, Lorraine, a daughter.

W. R. "Mike" Sachse, CE '40 (RR 4 Box 107, Leavenworth, KS 66048); Leavenworth Co. engineer since '56. Lives on 80-acre cattle farm with wife, Rose Anne, and five children.

H. A. (Hank) Thurstin, ME '41 (3006 South St. Paul St., Denver, CO 80210); married his wife, Marie, in '44. Three daughters, two sons. Spent 10 years with Westinghouse Electric and two years with Mountain States Machinery Co. In 1953 formed the Hank Thurstin Co.; now employs 12 workers and owns an office building in Denver. 1973 marked its 20th anniversary.

Robert L. Higginbotham, ME '47 (Box 6, Liberal, KS 67901); new address; member, \$/Year² Club.

H. D. Babcock, ME '48 (12 Coachmen's Square, New Canaan, CT 06840); 25-year employee for Schlumberger; past 18 months has been coordinator of wireline operations in corporate holdings of Schlumberger. Married Mildren I. Hall, '48; Three daughters. Enjoys traveling.

James P. Fitzwilliam, EE '49 (Box 10, U.S. Naval Communication Station, Ponce, P.R. 00731); station electronics engineer for Naval Communication Station, Puerto Rico; two sons.

Send IMPACT to a Friend

Do you have a friend or associate who might enjoy and benefit from reading IMPACT Newsletter? If so, send us their name and address and we will put them on the mailing list. We would be pleased to consider any suggestions you might have concerning IMPACT or this newsletter.



WELCOMED TO COUNCIL — Stanley Smith (left) of Hutchinson (Kan.) Community Junior College is the newest member of the K-State Engineering Advisory Council, a group of public-minded citizens — prominent in engineering and industry — organized for advising and aiding the College. Smith was greeted by (from left) Dr. Donald E. Rathbone, dean; W. LeRoy Culbertson, Bartlesville, Okla., ME '39 and council chairman; and Martin K. Eby Jr., Wichita, CE '56, following a council meeting in the Bluemont Room, K-State Union.

R. Herpich, Extension Engineer, Two Emeritus Professors Die

A K-State extension engineer and two emeritus professors of the K-State College of Engineering died recently.

Russell Herpich, a K-State extension agricultural engineer and a leader in irrigation farming, died of an apparent heart attack while working on the family farm near Herington, Kan., on March 16.

After joining the K-State staff in 1951, Herpich became known as "Mr. Irrigation" and helped to expand irrigation in Kansas from 332,000 acres in 1953 to an estimated 2.2 million acres now.

He gave technical leadership to K-State research projects all over the state, including the new Kansas River Valley experiment field near Topeka.

Forrest Faye Frazier, 89, an emeritus professor of civil engineering, died in late

Floyd I. Jones, EE '49 (4718 Waukesha St., Madison, WI 53705); city traffic engineer, acting director of transportation for Madison. Wife, Lois, a son, a daughter.

G. M. Spencer, IE '49 (6101 S.W. 28th, Topeka, KS 66604); \$/Year² Club member. Note address change.

Warren L. Hardin, CE '50 (736 Junction Ave., Wakeeney, KS 67672); member, \$/Year² Club.

Bedford A. Magnus, EE '50 (520 Warren Road, El Dorado, KS 67042); office address is 120 S. Main, P.O. Box 271, El Dorado, KS 67042.

Mark E. Baldwin, ME '51 (FAA AEV-100, c/o American Embassy, A.P.O. NY 09667); in Brussels, Belgium with the Federal Aviation Administration. Expects to return to U.S. in July '74 after six years in Belgium. Married Minnie M. Gilbert, Paris, in 1954, three children. With FAA since '58.

Terry L. Walter, AgE '52 (6700 Abbotsford Place, Wichita, KS 67206); new grandfather as of Sept. '73. Equal partner in Associated Personnel Technicians as executive vice-president.

Donald M. Hail, ME '58 (8104 Meadow La., Leawood, KS 66206); moved to Leawood in August from Kansas City, Mo.

Kenneth R. Ingerly, ME '58 (6406 Main, Kansas City, MO 64113); member, \$/Year² Club; note new address.

James H. McHugh, ME '58 (320 N. 20, Apt. 156, Omaha, NE 68102); works for the Omaha District Corps of Engineers.

Robert J. Boeding, EE '59 (3108 Fernwood Ct., Fullerton CA 92635); member, \$/Year² Club; note new address.

A. Larry Olson, ME '59 (641 West Kitchen Dr., Port Neches, TX 77651); recently promoted to general maintenance supervisor, General Work Section, Zones

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February at the United Methodist Home in Topeka where he had resided since May 1972. Until then he lived at 1815 Leavenworth, Manhattan.

Frazier, who was a member of the K-State civil engineering faculty from 1911 until his retirement in 1954, was the 37th engineer licensed to practice in Kansas. Following retirement, he worked for the Kansas Board of Engineering Examiners preparing and grading examinations for engineering licenses in Kansas.

Harvey Frederick Dietrich, 67, an emeritus assistant professor of industrial engineering, died early in April. He joined the KSU faculty in 1948 as a foundry instructor and earned a B.S. at K-State in 1957. He received a medical retirement in 1967 after several heart attacks.

Engineering Open House Dates Are Selected

April 11-12, a Friday and Saturday, have been selected as dates for the 51st annual KSU Engineering Open House set for 1975. These dates are some two weekends later than the event has been held the past two years.

Dr. John E. Kipp, associate professor of applied mechanics and faculty advisor to Steel Ring—an organization of seniors which coordinates the annual Open House—hopes that attendance and student participation will be increased to new record highs with this change in dates.

Look for additional information in this newsletter concerning the Open House and the seventh annual Engineering Alumni Symposium held the Saturday morning of Open House weekend.

ALUMNI NEWS

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Maintenance Dept., Gulf Oil Companies, Port Arthur refinery. He and wife have three children.

Gene H. Dettmer, ME '60 (8229 Ensley La., Leawood KS 66206); member, \$/ Year² Club; note new address.

Larry C. Bennington, CE '61 (10604 E. 64th Terr., Raytown MO 64133); member of \$/ Year² Club; division chief engineer for Amoco Pipeline.

Dr. N. Dean Eckhoff, NE '61, '63, and '68 (2598 Rogers, Manhattan, KS 66502); director, KSU Engineering Center for Energy Studies.

Doug Exline, IE '61 (216 W. Hillside Terrace, Salina, KS 67401); note new address.

Leon G. Streit, ME '61 (3479 N. Gale Rd., Davison, MI 48423); assistant staff engineer, Buick Motor Div., Flint, Mich. Had design assignment in brake systems, steering systems, chassis components and axles, and body structure. Married with seven children.

Donald L. Gish, NE '62 (2 Cassidy, Nellis AFB NV 89191); member, \$/ Year² Club; note new address.

John E. Miller, AE '62 (3121 Oakhill Rd., Carrollton, TX 75006); note new address.

Ralph H. Schimke, EE '62 (110 East Nina, Lansing, KS 66043); senior electrical engineer, Colgate-Palmolive, Kansas City. Wife, Pat, and three children.

Gary W. Edwards, CE '63 (13415 Balmore Cir., Houston, TX 77069); member, \$/ Year² Club; above is new address.

James F. Gieber, ME '63 (10 Drum Hill La., Randolph, NJ 07801); co-founder, Shrink Packaging Systems Corp. in 1970 which specializes in marketing of various packaging systems, materials, service, and technology. Married Nancy E. Thielen, elementary education '61, three children.

David S. Dodson, NE '64 (3911 Prange Dr., Lafayette, IN 47905); note new street address.

Joseph John Fettes III, EE '64 (2005 Hopewood Dr., Falls Church, VA 22043); member \$/ Year² Club; M.S.E., George Washington University.

Roger Heitschmidt, ME '64 (1237 Dry Creek, Derby KS 67037); new address; member, \$/ Year² Club.

Dr. Danny C. Ko, EE '64 (13311 Kornblum No. 8, Hawthorne, CA 90250); senior engineer programmer, Central Design Automation, Burroughs Corp.; formerly with CDC, NCR, and RCA; wife, Joan, two children. Ph.D. EE from University of Southern California, '73.

Jr. Vincent E. Sweat, AgE '64 (3017 Greenbrier, W. Lafayette, IN 47906) assistant prof. of agricultural engineering at Purdue University; married with two sons.

Dr. Richard D. Teichgraber, EE '64, '66, '69 (1608 Saxony Rd., Fort Worth, TX 76116); note change of address; project engineer at General Dynamics, Fort Worth. Presently in charge of the navigation portion of an avionics system simulation for the Air Force Avionics Laboratory.

Gerald Vance Auchard, ME '65 (6712 Castlegate Dr., Charlotte, NC 28211); senior mechanical engineer at catalytic Inc., Charlotte since May '73; professional engineer in North Carolina. Member \$/ Year² Club; above is new address.

Daniel Y. C. Ko, ChE '65 (14 Eberly Dr., Chapel Hill, Newark, DE 19711); note new address.

Richard C. Carter, EE '66 and '71 (8903 W/ 80, Overland Park, KS 66204); member, \$/ Year² Club.

Bruce Branson, EE '66 (10 Yale Ave., Huntington CT 06484); member, \$/ Year² Club; above is new address.

Robert D. Crangle, NE '66 (222 S. Riverside Plaza, Chicago, IL 60606); note new address.

Maj. Norman E. Featherstone, NE '66 (5964 Dayton Road, Springfield, OH 45502); reassigned to Air Force Systems Command, Foreign Technology Division, at Wright-Patterson AFB.

Keith Guthrie, IE '66 (905 Orange, Baldwin, KS 66006); member, \$/ Year² Club; above is a new address.

Mickey R. Killgore, NE '66 (1219 Craigmont Drive, Lynchburg, VA 24501); note new zip code.

Charles Edward Bliss, NE '67 (13554 Calais Dr., Del Mar, CA 92014); note new address; recently went to work for Gulf General Atomic as a senior engineer, Safety & Reliability Analysis Branch. Married Martha Crane, '67, one child. Doesn't miss the cold weather.

Wen H. Chiu, CE '67 (2151 Hull Drive, Wheaton, IL 60187); note new address.

Donald R. Ferguson, NE '67 (421 W. Melrose, Apt. 19A, Chicago, IL 60657); received M.S. from University of Birmingham, England, '68, and Ph.D. at M.I.T. in '71.

James L. Finney, ME '67 (145 Lou Lane No. 38, Spring TX 77373); member, \$/ Year² Club; above is a new address.

David Klotz, ME '67 (1122-17th Ave., Apt. 19, Longview, WA 98632); note new address.

Kenneth Lewis, ME '67 (1703 E12, Winfield, KS 67156); new position, plant engineer, Gott Mfg. Winfield. Three children. Active in Little League. Note new address.

Gregory L. Miller, CE '67 (8738 Marty La., Overland Park, KS 66212); completed military duty at National Oceanic and Atmospheric Administration; discharged Nov. 30, 1973. Returned to work at Black & Veatch, Kansas City. Daughter born Oct. 16, 1973.

Vincent L. Carlson, C.E. '68 (2462 Highland, Salina, KS 67401); note new address.

James P. Elliott, CE '68 (0206 Willow, Mundelein IL 60060); member, \$/ Year² Club; above is a new address.

Lawrence N. Frey, EE '68 (6410 McAbee Rd., San Jose, CA 95120); member, \$/ Year² Club; above is a new address.

Gary L. Johnston, IE '68 (13309 W. 77th Terr., Lenexa, KS 66216); member, \$/ Year² Club; above is a new address.

John Hintz, ME '68 (9109 W. 87th Terr., Overland Park, KS 66212); member, \$/ Year² Club; above is a new address.

David J. Langford, NE '68 (1094 Atlantic, Idaho Falls, ID 83401); note new address.

Steven R. Beck, ChE '69 (528 Sage Valley Dr., Richardson, TX 75080); note new address.

James J. Ferguson, IE '69 (7310 Glen Croft, San Antonio, TX 78239); member, \$/ Year² Club; above is a new address.

Ben H. Lin, EE '69 (5220 Oakton Ave. No. 107, Skokie, IL 60076); designated an alternate member, American National Standards committee, photographic sensitometry, PH², representing Sargent-Welch Scientific Co.

James T. Lundblad, ME '69 (9709 E. Park Plaza Ave. Rt. 1, Onalaska, WI 54650); note new address.

Daryl D. Jamvold, ME '69 (10823 White, Kansas City, MO 64134); note new address.

Thomas E. Callen, ME '70 (33 Butterfly Dr., Hauppauge NY 11787); member, \$/ Year² Club; above is a new address.

Chris Chapman, ME '70 & '71 (1502 Birch, Richland, WA 99352); works for Battelle Memorial Institute, Pacific Northwest Laboratories, Nuclear Waste Technology Dept. Objective is to develop and demonstrate commercially feasible methods for isolating waste fission products from the environment.

Randall S. Ellis, ME '70 (2933 Sheridan 915, Chicago IL 60657); member, \$/ Year² Club; above is a new address.

Kenneth R. Fladie, CE '70 (5862 Burchfield Ave., Pittsburgh, PA 15217); note new address.

Steven E. Hannan, CE '70 (4203 Vantage View, San Antonio, TX 78228); member, \$/ Year² Club; note new address.

Randall W. Koudele, ME '70 (1524 Timothy, Wichita, KS 67212); note new address.

Dennis K. Kuhlman, AE '70 (1768 El Camino Rd., Apt. 4, Jacksonville, FL 32216); recently transferred to NAS Jax from Quonset Pt., R.I. Works for USN and concerned with operational in flight Anti-submarine warfare training. Wife Carol Ann Singer, '72.

Fred Alexander Silady, NE '70; awarded his Ph.D. in NE from University of Illinois. He and wife reside in San Diego. Employed by Gulf General Atomic, Nuclear Reactor Safety Analysis.

Dennis Frey, EE '71 (P.O. Box 54, Idaho Falls ID 83401) member, \$/ Year² Club; note new address.

Barry R. Hoover, IE '71 (2244 Plass, Topeka, KS 66611); works for Goodyear Tire and Rubber Co. as industrial engineer. Married Jan Dobbs, KSU '73.

F. T. Hsu, IE '71 (39 Claire Dr., Somerville, NJ 08876); note new address.

John Schwartz, EE '71 (Torrején Air Base, Madrid, Spain); graduated from F-4 flight training at Lake AFB; flying in Spain for next 2-3 years.

Woody Swain, ME '71 (Seymour Johnson AFB, Goldsboro, NC 27530); in 334th Tactical Fighter Squadron next 3-4 years after graduation from F-4 training at Lake AFB.

Gregory A. D. Gero, EE '72 (199 Valley Brook Cir., Rochester NY 14616); member, \$/ Year² Club; above is a new address.

2nd Lt. James V. Hall, CE '72 (237th Engr. Bn. APO 09176); with Army Hielbronn, Germany. Married former Teresa K. Thomas, HE '71 and '72. Son born Dec. 27, 1973.

Clark T. (Tim) Harbaugh, ME '72 (Collingwood Corner Rt., Syracuse, KS 67878); note new address.

Stephen H. Ramsey, CE '73 (200 S. Colorado, Wichita, KS 67209); asst. bridge engineer, Delamater, Freund and Scherer, P.A., Consulting Engineers, Wichita.

Randy Schrick, ChE '73 (1304 Highland Ave., Atchison, KS 66002); new baby girl, Megan; just purchased a new house. Assistant superintendent, Midwest Solvents Co., Atchison.

Stephen D. Tiesing, EE '73 (807 N. Holden, No. 6, Warrensburg, MO 64093); note new address.

Lt. Randall K. (Randy) White, ME '73 (Norton AFB, Base P.O. Box 242, San Bernardino CA 92409); recently assigned here; working in engineering; was 1972-73 Engineering Student Council president at KSU.

K-STATE ENGINEER

Subscription rates on the award-winning K-STATE ENGINEER student magazine will be going up in the fall. If you would like a three-year subscription at the old rates (\$5.50, 3 years; \$2.00, 1 year), please send us your check made payable to K-State Engineer. There will be four issues in 1974-1975: October, December, February and April. Mail your check to:

**Circulation Manager
K-State Engineer
Seaton Hall
Manhattan KS 66506**

K-STATE ENGINEERING ALUMNI ACTIVITIES REPORT

As important as money is . . . money isn't everything. We'd like to know how you are. We'd like to know some news about you for the next issue of KSU Engineering Alumni Newsletter when we'll continue running news items of KSU engineering alumni. Children? Occupation? New address? New position? Married? Business, Educational or Military Promotion? Travel? (If not news about yourself, news about other KSU engineering alumni.)

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Your Name: Dept. Class of

Address: Zip:

Mail to: Mr. Tom Gerdis, KSU Engineering Experiment Station, Seaton Hall, Manhattan, KS 66506.

KSU Civil Engineer Holds Workshops On Transportation

Several workshops, short courses, and seminars in traffic engineering and traffic engineering technician training are planned at K-State, according to Dr. Bob L. Smith, professor of civil engineering, who is director for the program.

Smith said the program is funded through a federal grant-in-aid administered by the Kansas Highway Safety Coordinating Office. The Highway Office is providing \$40,039 through the KSU Division of Continuing Education in support of the workshops and seminars.

"Goal of the training programs is to reduce traffic crashes and the accompanying injuries and fatalities by providing instructional material and training for traffic and highway engineers, police officers, and others concerned with highway safety," explains Smith.

The first workshop, "Traffic Safety," was held May 6-17, and was specifically for engineering technicians, Smith said. Sessions were led by Jack Hutter of the Northwestern University Traffic Institute.

A second workshop, June 3-14, is a seminar for traffic engineers. Featured lecturer is Roy Sawhill, professor of civil engineering at the University of Washington, Seattle.

Also planned later is a series of three classes for local Kansas governmental administrators which will be carried statewide on the telenetwork system developed by the KSU Division of Continuing Education.

As Usual, KS Wins ASAE Design Contest

Ray A. Dilts, graduating senior in agricultural engineering from Sedgwick, kept up Kansas State University's winning tradition in the annual American Society of Agricultural Engineers mid-central regional student design competition by taking first place for 1974.

Dilts was honored for his fertilizer-lime spreader at the ASAE regional meeting recently at St. Joseph, Mo. Four universities participated in the competition: K-State, Iowa State, Missouri, and Nebraska. K-State also took first in the competition in 1972 and 1973.

Dilts' design was completed as his senior K-State Engineering Honors Program research project. He spent some 100 hours in research, building, and testing.

Dilts plans to attend graduate school at K-State and earn a master's degree in agricultural engineering before beginning a farming career.



THEEDE GETS SCHOLARSHIP AT KSU— Steven M. Theede (center right), Rt. 2, Sterling, senior in mechanical engineering at Kansas State University, Manhattan, received a special \$250 scholarship this year from the Continental Pipeline Company, Ponca City, Okla. The scholarship was presented by two company representatives (from left): Bob Comstock and Stan Wenger. Dr. J. Garth Thompson (right), professor and head of mechanical engineering at K-State, congratulated Theede.

Laud Dr. Fred Merklin For Outstanding Teaching

Dr. Joseph F. (Fred) Merklin, associate professor of nuclear engineering at K-State, has received the fourth annual \$500 KSU College of Engineering award for excellence in undergraduate teaching.

Recognition of Merklin, who joined the K-State faculty seven years ago after four years as a senior research chemist with Eastman Kodak in Rochester, N.Y., was announced by Dr. Paul L. Miller Jr.,

director of the College's Center for Effective Teaching.

A color portrait of Merklin and a plaque will be placed in a display case in the main lobby of Seaton Hall, K-State engineering building. Merklin will get permanent possession of both in May 1975.

A specialist in radiation chemistry and photochemistry, Merklin was promoted from assistant professor to associate professor in 1970. From 1957 to 1964, Merklin was a research assistant and teaching assistant while working on his Ph.D. at the University of Minnesota.

The Brooklyn, N.Y., native earned his B.S. degree from Manhattan College. He and his wife, the former Julie Sorenson, Austin, Minn., were married in 1960 and have two children: Anna Lisa, 13, and Gregory T., 11.

Mrs. Seaton Donates \$5,000 For Roy Seaton Scholarships

Establishment of the Roy A. Seaton Memorial Scholarships in Engineering at K-State has been announced by Dr. Donald E. Rathbone, dean of engineering.

"These endowed scholarships are to perpetuate the memory of Roy A. Seaton on the campus of Kansas State University, to pay tribute to his intense loyalty to the University, and to recognize and commemorate his many years of service as an engineering educator, including a long period of distinguished leadership as dean of engineering at KSU," Rathbone said.

The scholarship program was established with an initial gift of more than \$5,000 from his widow, Mrs. Elnora Seaton.

The first of the Roy A. Seaton scholarships, which are valued at \$250, will be awarded for the coming academic year.

Scholarship recipients must be residents of Kansas, graduates of an accredited Kansas high school, and be pursuing an engineering curriculum at KSU.

Seaton was associated with the KSU engineering school most of the time from 1901, when he entered as a freshman, until 1954, when he was officially retired.

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Dean of the College
Dr. Donald E. Rathbone
Associate Dean of Engineering
Dr. Teddy O. Hodges
Editor
Tom Gerdis

Photo Report—50th Open House

6th Annual Alumni Symposium Well Attended

The golden anniversary of the K-State Engineering Open House was celebrated by alumni, students, faculty and friends of the College of Engineering alike.

The enthusiasm exhibited in all of the activities was just excellent in the minds of everyone who came back to Manhattan for the open house and alumni symposium.

The semi-annual meeting of the Engineering Advisory Council took place Friday, March 29, with LeRoy Culbertson, council chairman from Bartlesville, Okla., presiding.

At 11:30 Friday morning, a unique, memorable coronation ceremony for St. Pat and St. Patricia was held on the front steps of Seaton Hall. See the photo layout for some choice glimpses of what went on.

Opening ceremonies including the traditional ribbon-cutting took place at 4 p.m. and exhibits were open until 8 p.m.

The chemical engineers and electrical engineers won awards for outstanding student exhibits at the Open House.

The Big 8 Room of the K-State Union was the site of the sixth annual Engineering Alumni Symposium on Saturday morning. Professor Dwight A. Nesmith presided over the meeting. An overflow crowd was on hand to hear four excellent speakers discuss consumerism:

- Diane McKaig, Coca-Cola's assistant vice president for consumer affairs.
- Herbert Phillips, technical director, Association of Home Appliance Manufacturers.
- Hon. William H. Ward, Kansas Assistant Attorney General.
- Dr. Jason C. Annis, member, Major Appliance Consumer Action Panel.



Twelve emeritus faculty members of the KSU College of Engineering attended the Open House Awards Banquet Saturday evening. Standing (left to right): Earl L. Sitz, F. C. Fenton, A. E. Hostetter, Earl G. Darby, O. D. Hunt and Linn Helander. Seated: A. E. Messenheimer, R. G. Kloeffler, Russell M. Kerchner, M. A. Durland, Floyd A. Smutz and Louis Jorgenson.



1974 ENGINEERING ROYALTY — Dan Kidd, senior in civil engineering, and Karen Hoefgen, senior in chemical engineering, both from Topeka, Kan., reigned over the 1974 Open House. Kidd was dressed as a frogman. The three candidates for St. Pat each arrived in a different way.



ENGINEERING ADVISORY COUNCIL CHAIRMAN, W. LeRoy Culbertson, ME '39, Bartlesville, Okla., crowned Karen Hoefgen, ChE '74, who reigned over the 1974 Open House as St. Patricia.



TEN OUTSTANDING ENGINEERING SENIORS AT KSU were inducted into the Knights of St. Patrick for outstanding service to the College combined with good academic performance. Dean Donald E. Rathbone (seated second from left) welcomed each of the group. Seated (from left): Mike Ramsey, Vicki Swisher, and Larry Jones. Standing: Mike Duncan, Don Glaser, Ray Dilts, Kent Manuel, Dave Pacey, Rick Grapengater and J. D. Wilson.

Experience and hard work helped Rick Cobb, Valley Falls (Kan.) high school senior, win a close "Mad Race" Saturday morning. The annual race was open to high school students who designed and built small mousetrap spring-powered vehicles to compete for prizes.

An interesting sidelight to this year's open house was that the Federal Communications Commission granted the KSU Amateur Radio Club a special call sign. The KSU club usually signs "WQOQQ"; for Open House week it was "WQOKSU."



The crowd attending coronation ceremonies Friday at 11:30 a.m. was the largest in recent memory of K-State engineering open houses. Antics and some genuine fun prevailed at the ceremonies. A "former" St. Pat and St. Patricia from years gone by were also there as shown above.



DR. HENRY J. BARRE, professional engineer from Worthington, Ohio, received the 1974 K-State Distinguished Service Award in Engineering March 30. Barre, professor emeritus of agricultural engineering at Ohio State University, grew up on a farm near Tampa in Marion County, Kansas, and earned his degree at KSU in 1930. He was associated with Purdue and Ohio State universities and was a private engineering consultant. He has earned several medals for outstanding academic and professional achievements. The award was presented to him by K-State President James A. McCain who on July 1 begins his last year at the helm of the University. K-State Engineering Dean Donald E. Rathbone (right) introduced Dr. McCain at the Open House banquet.



A visiting alumnus and his wife with Professor Robert W. Crank (left) of mechanical engineering look at the photos of the 1929 graduating electrical engineers.



Several visiting students and parents were intrigued by this display in nuclear engineering. It showed a cross-section of the K-State teaching-research reactor located in Ward Hall.



A display of alternative sources of energy was developed by students in the department of electrical engineering.



Electrical engineering won the award for the outstanding overall department display at the 1974 open house. Larry Jones (left) of Steel Ring presented the plaque at the Open House Awards Banquet to Hassan Pirasteh Far representing the EE department.



A record attendance of more than 160 heard a short talk on the state of the College by Engineering Dean Donald E. Rathbone. In his presentation, he showed several video-cassette color spots developed by Prof. Dwight A. Nesmith, director of the Engineering Cooperative Work-Study Program.



In animated conversation during the open house awards banquet on Saturday evening were Dr. Henry Barre (third from left), 1974 Distinguished Service Award recipient, and Mrs. James A. McCain. Others at head table (from left): Dean Rathbone, Mrs. Barre, Dan Kidd (1974 St. Patrick), and Karen Hoefgen (1974 St. Patricia and graduating senior in chemical engineering).



The 1974 Steel Ring trophy for the student exhibit judged most outstanding was presented to Chemical Engineering. John Schlup of Chemical Engineering accepted the trophy from Brent Remsberg of Steel Ring, a select organization of engineering seniors which conducts the annual open house.

KSU Sigma Tau Is Merged Into Tau Beta Pi

KSU has merged its student chapter of Sigma Tau engineering honorary into its newly-established chapter of Tau Beta Pi, the Phi Beta Kappa of engineering honor societies in the U.S.

The merger of Sigma Tau into Tau Beta Pi, which occurred nationally on Dec. 28, took place at K-State Jan. 27, according to Dr. Frank A. Tillman, faculty adviser to the Tau Beta Pi chapter.

K-State Tau Beta Gamma chapter of Tau Beta Pi is only the second one in the nation to have the merger take place on its campus. The first merger of Sigma Tau and Tau Beta Pi occurred recently at the University of Nebraska.

John Schlup, Tonganoxie, Kan., Tau Beta Gamma president and a senior in chemical engineering, reported that K-State is one of four new Tau Beta Pi chapters installed this winter. There are now 145 Tau Beta Pi chapters in the U.S.

Ninety-one individuals were welcomed into Tau Beta Pi membership Sunday by the national officers. New members included four K-State engineering faculty members: Dr. Doris Grosh, industrial engineering; Dr. Ed Lindley, applied mechanics; Dr. Joseph F. Merklin, nuclear engineering; and Prof. Vernon Rosebraugh, civil engineering. Also included was the current membership of Sigma Tau at K-State.

Tau Beta Gamma chapter at K-State planned to take in new members later this spring, said Tillman, professor and head of industrial engineering.

To be initiated as a Tau Beta Pi member, a first-semester junior in engineering must rank in the upper 10 per cent of his or her college class. Seniors must be in the upper 20 per cent.

ASAE Sectional Honor To Dr. T. O. Hodges

A K-State engineering professor has been honored by his peers in the American Society of Agricultural Engineers for excellence in engineering performance.

Some 800 agricultural engineers in the four-state area have cited Dr. Teddy O. Hodges, associate dean of engineering and director of the K-State Engineering Experiment Station, as the "Outstanding Individual of the Year."

Hodges' award came April 6 at the annual meeting of the ASAE mid-central division in St. Joseph, Mo. He was presented a paperweight as a memento of the occasion.

There was one nominee for each of the four states in the section—Kansas, Iowa, Missouri, and Nebraska.



TAU BETA PI-SIGMA TAU MERGER AT KSU — K-State's Sigma Tau engineering honorary was merged into Tau Beta Pi on Jan. 27 in ceremonies in the Danforth Chapel at K-State. Student leaders J. D. Wilson, Wichita (center left), and John Schlup, Tonganoxie (center right), display the charter wall plaques. Looking on are faculty advisors: Dr. Ed Lindley, applied mechanics, and Dr. Frank Tillman, industrial engineering.

12 Grants Received By Engineering College

The KSU Engineering Experiment Station reports another \$1 million year, according to Dr. Teddy O. Hodges, associate dean of engineering and director of the experiment station.

"It now appears that we will have about \$1,250,000 in research contracts and grants in force by the end of June which is the end of our fiscal year. This is comparable to the corresponding period for last year," he noted.

Hodges also pointed out that K-State engineering faculty are writing more research proposals than in the past, although the average dollar amount per proposal is down slightly to an average of \$30,000.

"There is good reason for this \$30,000 average. It seems that the sponsoring agencies seem to be funding more proposals in this \$30,000 range," Hodges explained.

He lauded the KSU engineering faculty in several departments for their hard work in writing proposals.

Several new grants have been received:

- **F. C. Appl**, mechanical engineering, "Cutting Action and Wear of Diamond Cutting Tools When Cutting Non-Metallic Materials," \$10,000, Christensen Diamond Products Company.
- **E. L. Besch**, Institute for Environmental Research, "Definition of Environmental Conditions of Lab Animals," \$39,092, U.S. Department of Health, Education, and Welfare.
- **Kendall F. Casey Jr.**, electrical engineering, "Effects of Braid Resistance and Weatherproof Coatings on Coaxial Cable Shield Effectiveness," \$15,000, Dikewood Corporation.
- **Larry E. Erickson**, chemical engineering, "Modeling, Analysis and Optimization of Biosystems," \$24,960, HEW.
- **Richard R. Gallagher**, electrical engineering, "Physiological Data Measurements and Display," \$6,355, General Electric (NASA).
- **Floyd W. Harris**, electrical engineering, "Undergraduate Participation in Hydrogen Research," \$12,260, National Science Foundation.
- **James K. Koelliker**, agricultural engineering, "Feedlot Runoff Control," \$1,500, Environmental Protection Agency.
- **Frederick H. Rohles Jr.**, Institute for Environmental Research, "Comfort Criteria for Automobile Air-Conditioning," \$75,643, Ford Motor Company.
- **Larry A. Schmid**, civil engineering, "Swine Waste Digestion Enhancement with Nutrient Separation," \$8,382, Kansas Water Resources Research Institute.
- **J. Kenneth Shultis**, nuclear engineering, "Electrical Power Generation—Comparative Costs and Benefits," \$9,927, U.S. Atomic Energy Commission.
- **Bob L. Smith**, civil engineering, "Seminars for Traffic Engineering," \$93,653, Kansas Highway Safety Coordinating Office.
- **J. Garth Thompson**, mechanical engineering, "Bioenvironmental Training," \$4,200, American Society of Heating, Refrigerating and Air-Conditioning Engineers.

NEWSWORTHY NOTES

Nine KSU engineering educators have received academic promotions for 1974-75. To full professors: **Peter B. Cooper**, CE; **Robert L. Gorton**, ME; **Chi-Lung Huang**, Applied Mechanics; and **John C. Lindholm**, ME. To associate professor: **Jason C. Annis**, ME; **Donald R. Hummels**, EE; **Merlyn S. Krick**, NE; and **J. Kenneth Shultis**, NE. To assistant professor: **Larry S. Axthelm**, agricultural engineering.

M.A. Durland, dean emeritus of engineering (1949-1961), has been honored with an American Society of Mechanical Engineers' 50-year pin.

U.S. Sen. Jennings Randolph (D-W.Va.) headed the list of speakers at the annual Kansas Highway Engineering Conference March 21-22 at K-State. **Dr. Bob L. Smith** was conference director.

Energy Symposium III is tentatively slated for October at K-State according to **Dr. N. Dean Eckhoff**, director of the Engineering Center for Energy Studies.

KSU has received \$8,531.50 through the General Electric Foundation's 1972 Corporate Alumnus Program to fund GE alumni scholarships to students majoring in an engineering curriculum.

Seven K-State engineering educators—**Richard R. Gallagher**, EE; **T.O. Hodges**, AgE; **Philip G. Kirmser**, ApMech; **John C. Lindholm**, ME; **J.O. Mingle**, NE; **Fred Rohles**, ME; and **Ralph O. Turnquist**, ME—participated in the American Society for Engineering Education regional meeting March 28-29 at Wichita. **Richard B. Hayter**, graduate student, gave a paper.

A \$2,500 grant from E.I. DuPont de Nemours & Co. has been received by the department of chemical engineering. These funds are being used for scholarships for senior high school students.

John C. Mein, 20, Walnut, Kan., senior in electrical engineering, is the 1974-1975 president of the KSU Engineering Student Council.

"The K-State Engineer," published four times a year by the Engineering Student Council, earned a third place and two honorable mention awards in the 1972-1973 national awards competition of Engineering College Magazines Associated (ECMA).

"Guided Design," a new method of instruction, was the topic of an April 17-18 workshop sponsored by the Engineering Center for Effective Teaching and the KSU Office of Educational Resources.

Kansas hospital administrators and engineers met March 27-28 at K-State for an energy symposium given by KSU engineering faculty members, according to **Dr. William H. Honstead**, director of the Kansas Industrial Extension Service.

Outstanding Offers to Grads Reported by J. Bruce Laughlin

Job opportunities for new engineering graduates which have been very good are now excellent — with the outlook very bright for the next several years.

That is the assessment of **Dr. J. Bruce Laughlin**, director of career planning and placement at K-State. New graduates are choosing between several job offers. The average salary for all engineers graduating from K-State at this time is right at the \$1,000 per month bracket.

"We're on an obvious upward trend. But I hasten to say that the job opportunities for engineers at K-State have not been bleak at any time in the last decade.

"We are simply not able to satisfy the demand at the present time for engineers for any of the engineering curricula offered at this University," Laughlin pointed out.

Norman L. Graves, a May 1974 graduate in nuclear engineering, has an offer of no less than \$17,000 a year. **Vicki Swisher**, Gering, Neb., graduating in nuclear engineering, also had a whopping 24 job offers. She's going to work for Combustion Engineering, Windsor, Conn., in June.

"One field that seems to be coming rapidly to the fore is nuclear engineering. This is because of the utility industry interest in moving toward solutions of energy problems through nuclear power," Laughlin has observed.

Recruiter interest in graduates of the electrical energy systems engineering option developed by **Dr. Floyd W. Harris**, associate professor of electrical engineering at K-State, seems excellent

New Transport Theory Book Written by Dr. J. O. Mingle

A new book, "The Invariant Imbedding Theory of Nuclear Transport," by **Dr. John O. Mingle** of the K-State engineering faculty, has been published recently.

It presents a summary of important research and literature in neutron transport and gamma-ray transport theory.

Mingle is the Black and Veatch Professor of Nuclear Engineering at KSU and director of K-State's Institute for Computational Research.

"The book is primarily a general reference for researchers interested in invariant imbedding theory," Mingle said.

Stanley R. Clark, former KSU instructor in agricultural engineering, is now working for the Hesston Corporation.

Some \$15,000 has been received by the KSU Endowment Association for the encouragement and promotion of chemical engineering research and education. Donors are **David Koch** and **Fred C. Koch** for Charity, Wichita.

Dr. James E. Woods, who received his Ph.D. recently in bioenvironmental engineering at K-State, has accepted a position at Iowa State University, Ames.

too. **Harris** indicates that K-State is graduating 10-15 from this option this year.

As Laughlin sees it, the energy crunch is going to create the need for more engineers. "The crunch is, quite obviously, going to be dealt with by engineers. Of course, this will have a beneficial effect on demand for our K-State engineers."

Dr. Lucas To Establish Laboratory in New Zealand

A KSU engineering professor, **Dr. Michael S. P. Lucas**, will be on leave this coming year to assist New Zealand in establishing its first hybrid microelectronic laboratory.

Lucas has been awarded a senior research fellowship from the New Zealand National Research Advisory Council to work with the New Zealand Department of Scientific and Industrial Research in Wellington, the capital of New Zealand, during 1974-1975.

Start Dean's Award Program For Kansas High Schools

(Continued from Page 1)

A Seaton Scholarship is awarded to each recipient upon enrollment as a full-time engineering student at K-State. The Seaton Scholar Program also includes junior college transfer students. Financial need is not a requirement.

Rathbone listed four basic purposes for the awards program:

- Honor outstanding graduating high school seniors.
- Recognize outstanding achievement and reward academic excellence in mathematics and science.
- Encourage talented students to consider engineering careers.
- Perpetuate the memory of the late **Roy A. Seaton**, KSU dean of engineering (1920-49) by a special scholarship program.

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