

## 49th Engineering Open House At KS On March 30-31

The theme for the 49th annual KSU Engineering Open House, set for Friday and Saturday, March 30-31, is "Today's Engineering, Tomorrow's World," pointing out the impact of engineering education upon the future of mankind.

Open house will be held from 6 to 9 p.m. on Friday and 9 a.m. to 4 p.m. on Saturday. Make your plans early to attend the Open House in Manhattan, Kan.

Engineering Open House is usually held annually the weekend nearest to St. Patrick's Day. St. Patrick is the engineers' patron saint. However, spring vacation at K-State falls the weekend before spring break.

So this year, Open House will be held two weeks later in the semester than in the past.

The open house weekend is traditionally the biggest extra-curricular activity for the undergraduate engineering student body.

Now is a good time to invite one or more prospective KSU engineering students, male and female, to come to the campus to see the many creative student displays and exhibits.

Gov. Robert B. Docking of Kansas has proclaimed the week of March 25-31 as KSU Engineering Open House Week in the state.

Open House week activities get underway Monday with balloting for royalty—St. Patrick and St. Patricia, his lady. Royalty will be crowned in coronation and ribbon-cutting ceremonies Friday at 6 p.m.

Friday at 9:30 a.m. the College of Engineering Advisory Council conducts its semi-annual meeting.

Concluding Open House festivities will be the sixth annual Engineering Open House Awards Banquet in the K-State Union Ballroom with KSU President James A. McCain presenting the Distinguished Service Award in engineering to an outstanding alumnus of the College.

Tickets to the banquet are \$3.50 each.



1973 OPEN HOUSE OFFICERS — Dr. Ralph G. Nevins (r.), KSU dean of engineering, discusses plans for the 1973 KSU Engineering Open House set for March 30-31 in Manhattan. Heading the planning and coordinating of this 49th annual event (from left): Doug Hoopes, Ron Wilson and Bob Matousek. Open House is directed by Steel Ring, select honorary of seniors in the College.

## Dedicate New N.E. Facility, Energy Policy Considered

A national symposium, "Toward a National Energy Policy," Nov. 3 at K-State was well received, says Dr. Richard E. Faw, professor and head of nuclear engineering. The symposium, featuring several prominent speakers expert in energy production and requirements, was part of the dedication festivities held during the dedication of the addition to Ward Hall.

Ward Hall is named in memory of the late Dr. Henry T. Ward, who was head of chemical engineering before his untimely death in 1960. Dr. Ward had been instrumental in initiating studies in nuclear engineering at K-State.

The department of nuclear engineering is considering conducting a follow-up symposium on this topic next year. Suggestions and recommendations from alumni and friends of the College of Engineering are solicited by Faw to help guide planning for that meeting.

Dr. Hermann Donnert, professor of nuclear engineering, was in charge of planning for the symposium and dedication on Saturday, Nov. 4, of the facilities. Donnert was emcee at the dedication.

Symposium speakers: U.S. Rep. Wayne N. Aspinall; Carl Bagge, president, National Coal Assn.; W. LeRoy Culbertson, vice president, Phillips Petroleum; Dr. Raymond Doll, vice president, Federal Reserve Bank of Kansas City; Dr. John H. Gibbons, Oak Ridge National Laboratory;



L. Culbertson



W. Aspinall

Dr. John J. McKetta, University of Texas, Austin; and John G. Winger, vice president, Chase Manhattan Bank, New York City.

Dr. McKetta, chairman of the President's National Energy Policy Committee, talked about the dwindling supplies of fuels—natural gas, gasoline, and crude oil. He contends that the U.S. should move ahead with the development of first and second-generation nuclear reactors to supply the energy needs predicted for the not-too-distant future.

Culbertson, 1939 mechanical engineering graduate of K-State, listed six principles he

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**SOME 200 PERSONS ATTENDED** the dedication of the addition to Ward Hall on Saturday, Nov. 4. An honored guest, U.S. Rep. Wayne Aspinall (dark coat), is shown waving his right hand. Other dedication speakers: the late Tom Griffith, Regent from Manhattan; KSU President James A. McCain; Dr. Ralph G. Nevins, KSU dean of engineering; Dr. William R. Kimel, dean of engineering at Missouri; and Dr. Richard E. Faw, professor and head of nuclear engineering at KSU.

## Grads More in Demand, Start at \$10,800 a Year

An increasing demand for graduates . . . fewer students . . . that's the report from Dr. K. K. Gowdy, assistant dean of engineering.

During spring semester, there will be 131 companies and firms visiting campus to contact K-State seniors. Of these, approximately 66 per cent will be interviewing engineering students. Gowdy says the total is a sizeable increase from last spring, and reflects the improved job market across the country for engineers.

"Even before the improvement in the economy, we were able to place most of our graduates in good jobs. At the time of graduation, 95 per cent of our 1972 class had jobs or were planning graduate study and the average starting salary was \$10,800 a year.

"While the present demand is less than the peak years of the late '60's the improving economic picture is giving many companies the confidence to increase their hiring levels," he said.

In addition to manpower needs to expand facilities and design new products, new engineering positions are being created to cope with pollution problems, energy needs, and industrial safety requirements. Recently, the U.S. Department of Labor forecast a 40 per cent increase in the number of engineering positions by 1980.

Gowdy feels trouble looms ahead. "Engineering enrollments across the country have declined recently," he commented "and many experts are predicting a serious shortage of graduates by 1975."

At K-State the 1972 freshman class of 213 represents a decrease of 36 per cent from 335 in 1970. Although a slight increase in transfer students has helped to offset the

loss, total enrollment in the College is down 14 per cent over the same period.

"These figures are representative of the situation nationally and appear to be a consequence of many factors.

"Undoubtedly, there was an over-reaction to the news stories about layoffs in the aerospace industry with many high school counselors and students concluding erroneously that there were few jobs for engineering graduates.

"In addition, there are data indicating that the pool of potential engineering students has declined as a consequence of changing academic patterns in high school. In 1970, the percentage of students taking physics in high school was down 25 per cent from 1960 and the percentage taking advanced math courses was down about 10 per cent. At the same time a segment of the general public has become disenchanted with engineering because of pollution problems, power shortages, etc.

"However, most people recognize that these complex problem areas will require the efforts of bold, imaginative young professionals if they are to be dealt with in a satisfactory manner," he said.

Gowdy mentioned particularly the opportunities for women.

"Employment projections for the next decade suggest that two of the traditional areas for women, teaching and social work, will be flooded with graduates. Thus, we believe that a young woman with an interest in science and mathematics should give serious thought to the possibility of a career in engineering.

## Chemical Engineering Research Projects Benefit Kansas

With this issue of **IMPACT** Newsletter, we continue to present brief reports on continuing research activities coordinated through the KSU Engineering Experiment Station. The department of chemical engineering is featured this time.

### CHEMICAL ENGINEERING

In the past two years, the department has conducted many research projects on fundamental aspects of chemical engineering, such as transport phenomena, chemical reaction engineering and thermodynamics. The activities in these areas were mainly supported by the National Science Foundation, Engineering Experiment Station, and the department.

However, to specifically demonstrate the relevance of the department to the State of Kansas and to society in general areas of obvious interest are listed below with a brief description of the work in each area.

**Air pollution:** the department continues to be involved in air pollution studies and over the past year, this effort has intensified as evidenced from two grants from the Environmental Protection Agency (EPA).

**Feedlot runoff:** The problem of runoff from feedlots is a natural one for chemical engineers to solve. The movement and filtration of multi-component streams through porous media were studied. These activities were supported mainly by the Agricultural Experiment Station.

**Municipal waste treatment:** This work was very extensive. Efforts were devoted to developing new methods of treatment and to optimal design and operation of existing methods. Support came from EPA and the Kansas Water Resources Research Institute.

**Food science and grain processing:** The department has a rapidly expanding effort in this area and is participating in an interdisciplinary program with other interested departments on campus. Major emphasis was on production of single cell proteins from hydrocarbons. The grain processing research emphasized the design and evaluation of mixers and effects of handling methods on storage volume.

"We have received numerous inquiries in the past few weeks from companies seeking women graduates and with the added thrust of the Affirmative Action program the demand will become even stronger," he concluded.

A list of reporting KSU engineer graduates (December 1972) and what they are doing now follows:

Dwight Edward Beauchamp, IE, 2nd It., Shaw AFB, S.C.; Henry D. Becker, IE, 2nd It., Air Force; Alan M. Berggren, NE, operating own business; Kenneth E.

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# Charter Memberships in Giving Clubs Grow

## Alumni Donations Reach \$20,917 Since July 15

Contributions as of Jan. 26 to the fund appeal made by Dr. Ralph G. Nevins, KSU engineering dean, have reached \$20,917. Another \$11,914 in pledges have been received from individuals who have joined the KSU Engineering Dean's Club.

Dr. Ralph G. Nevins, engineering dean, points out that a total of \$7,123 has been received through the Dean's Club, \$8,191 from the \$/Year<sup>2</sup> Club, and \$5,603 in contributions designated to Ward Hall.

The Dean's Club (members pledge \$500 or more to be paid within five years) now has 57 members. What pleases Dean Nevins and other KSU engineering administrators is the growing total of 558 engineering alumni who have joined the \$/Year<sup>2</sup> Club, agreeing to contribute \$1 annually for each year that has passed since graduation.

Three more companies—Hercules, IBM and Oklahoma Gas & Electric—matched the contributions of KSU engineering grads employed by them. Other firms who have matched contributions this year: Allis Chalmers, Armco, Dow Corning, General Electric, Hesston Mfg., Phillips Petroleum and Westinghouse.

In the next IMPACT, we will publish a listing of participation by the College's 67 graduating classes with living engineering alumni in the two giving clubs (Dean's and \$/Year<sup>2</sup>). We hope it will give you an idea of how you and your classmates compare with other classes in terms of percentage of participation and total dollars contributed.

"The alumni support thus far has been excellent and makes me optimistic that we will eventually achieve the sort of extra-budgetary support that is so essential to our program," Nevins said.

Charter memberships in both giving clubs will be open through June 30. So there is still time for you to join if you have not had an opportunity to do so yet. Please send your check or money order (made out to KSU Endowment Assn.) to Dean R. G. Nevins, KSU College of Engineering, Seaton Hall, Manhattan, Kan. 66502.

Listed below are charter members of both clubs who sent in contributions between Oct. 13 and Jan. 26. Contributions received on Jan. 27 or later will be published in the April-June issue of IMPACT.

### DEAN'S CLUB . . .

Roy M. Bainer, '26; David L. Braun, '67; John E. Brink, '68; Gen. Glen E. Edgerton, '04; Charles Frankenhoff, '18; J. L. Hammann, '39; Joel P. Kesler, '33; William T. Keogh, '42; and Harold G. Lewis, '28.  
Laurel A. March, '27; Paul T. Martin, '44; Prof. Dwight A. Nesmith, '52; George H. O'Brien, '40; Dale N. Olsen, '49; David M. Poppewell, '61; Bruce E. Roberts, '39; Harold L. Siegele, '47; Charles D. Strain, '14; and Henry D. Walz, '50.

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WEST SIDE VIEW of the new \$900,000 addition to Ward Hall housing the department of nuclear engineering. Faculty and staff will move into the new facility in two or three months, says Dr. Richard E. Faw (l.), professor. Faw is shown with Ray Lippenberger, a K-State architect. Ward Hall houses the KSU Triga Mark IV teaching-research reactor.

## Engineering Education Future Discussion Topic at Symposium

Just what is the future of engineering education in Kansas?

That is the question that Dr. Ralph G. Nevins, KSU engineering dean, will address himself to during his presentation to alumni and friends at the fourth annual College of Engineering Alumni Symposium March 18.

Educational administrators, professional engineers, legislators and interested citizens are taking a hard look at existing engineering educational programs. Dr. Nevins plans to talk about the current climate in the state as it affects K-State's engineering college.

The alumni symposium, attracting from 75-200 persons each of the past three years, will be conducted in conjunction with the 48th annual KSU Engineering Open House set for 6 to 9 p.m. on Friday, March 17, and 9 a.m. to 4 p.m. on Saturday, March 18.

Symposium registration is set for 9 a.m. The program will begin at 9:30 a.m.

Following Dr. Nevins' talk, "The Future of Engineering Education in Kansas," those attending the symposium will react to his remarks. There will be ample opportunity for audience participation.

Adjournment is scheduled for 11:30 a.m. This will be followed by an informal luncheon (\$1.70 a ticket) at noon with no speeches.

Dr. R. G.  
Nevins



## Dr. McCain to Present Award To Distinguished K-S Alums

The annual KSU Distinguished Service Award in engineering will be presented at the 5th annual Engineering Open House Awards Banquet on Saturday, March 18, starting at 6 p.m.

Initiated 19 years ago, the award will be presented in the K-State Union Ballroom by Dr. James A. McCain, KSU president. The 1972 recipient of the award will be announced on St. Patrick's Day, Friday, March 17, during the second annual Engineering Dean's Convocation.

Dean Rapp G. Nevins notes that "this prestigious award provides a mechanism whereby the College may recognize a very limited number of graduates." Faculty members are not eligible since they are recognized in other ways. The recipient must receive the award in person.

Last year's awardee was Loyal M. Van Doren, CE '38, partner in the Topeka, Kan., consulting firm of Van Doren-Hazard-Stallings-Schnacke.

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# KSU ENGINEERING ALUMNI NEWS WINTER 1972

**Editor's Note:** The response thus far to KSU Engineering Alumni News has been enthusiastic. It appears that such information will continue to be published along with or in IMPACT Newsletter. However, for it to be a successful venture, it is important that you send us news items about your activities as well as those of other KSU engineering alumni. When writing to us, specify your year of graduation, curriculum in addition to your full address including your zip code. We hope to hear from you soon. Send your items to: Mr. Thomas A. Gerdis, Editor, IMPACT Newsletter, KSU Engineering Experiment Station, Seaton Hall, Manhattan, Kan. 66502.

## PROMOTED . . .

W. B. Middleton, '47 (152 Brookfield Ave., Paramus, N. J. 07652), established consulting firm, W. B. Middleton and Assoc.

George A. Nelson, CE '53 (802 Springdale Rd., N. Augusta, S.C. 29841), opened office as a consulting structural engineer, was associated with three leading consulting firms.

Leon Heidebrecht, '57 and '64 (13224 Memory La., Fairfax, Va. 22030), promoted to senior highway engineer, Highway Systems, Department of Defense; received outstanding service award for SAFEGUARD Anti-Ballistic Missile sitings in several states; married, three children.

Gary Goetsch, IE '60 (Box 1028, Hutchinson, Kan. 67501), promoted to quality control manager, Fluid Power Division, Cessna Aircraft; married to former Sonja Dawes; two daughters, 10 and 8.

F. Lee Duncan, '66 (4042 Brookside La., La Crosse, Wis. 54601), promoted last June to assistant sales manager, brazed aluminum products, Trane Co.; issued two patents in past year; four recent business trips to Europe.

Leon Shelton, fs, promoted from operations manager to manager, Champlin Pipelines, Enid, Okla.; registered professional engineer, Kansas and Oklahoma.

## EDUCATION . . .

Gerald R. Whitcomb, AgE '52 (518 W. Halliburton, De Witt, Ark. 72042), teaching high school.

Thomas F. Creech, '57 (419 E. Minneapolis, Salina, Kan. 67401), teaching at Kansas Technical Institute, Salina.

Brian T. Haupt, '63 and '65 (7810 Norwood, Shawnee Mission, Kan. 64208), promoted to assistant professor and acting chairman, engineering science department, Rockhurst College; married; 14-month-old daughter.

Dr. Donald R. Ferguson, '67 (41 Pilgrim Rd., Boston, Mass. 02215), received Ph.D. in nuclear engineering in September from MIT; now an MIT research associate and engineer with Yankee Atomic Electric Co., Westboro, Mass.

Harry W. Campbell, '69 (765 E. 18th St., Apt. 1, Eugene, Ore. 97403), in graduate school at University of Oregon after completing two years of military duty at Ft. Knox.

Larry Larsen, '69 (26 Nottingham Way, Middletown, N.J. 07748), entered Wharton School of Finance, University of Pennsylvania, in January; served in Vietnam; was in charge of an earthmoving platoon building a national highway.

Syed Waziruddin, IE '69, with department of industrial engineering, Middle East Technical University, Ankara, Turkey.

## MILITARY . . .

Woodrow B. Sigley, '39 (1420 Bellaire Dr., Colorado Springs, Colo. 80909), retired as Army colonel; last assignment was as chief of staff, Army Air Defense Command, Colorado Springs.

Charles W. Adcock, ME '41 (Box 10-0, Waialae-Kahala Sta., Honolulu, Haw. 96816), retired as Army colonel Aug. 31 after 30 years service; wife, former Betty Lee Beatty, '46.

Lt. Alan Lee Levin, ME '64 (6441 Calle Bootis, Tucson, Ariz. 85710), missile launch officer, Davis Monthan Air Base; baby, Michael Alan, born Oct. 2; wife, former Janice Rust.

Capt. James A. McKinnis, ME '68 (4 Sharon Dr., Edwards, Calif. 93523), married to former Jo Marie Bell; two children; stationed at Edwards Air Base; received M.S. in 1969 from Air Force Institute of Technology in aero-mechanical engineering, Wright-Patterson Air Base.

1st Lt. Ron D. Hoagland, '69 (435 N. Arthur, El Dorado, Kan. 67042), stationed at Long Binh, Vietnam, as a helicopter pilot.

Lt. Thomas K. Rogge, '69 (2113 B N. Carolina Ave., Homestead, Fla. 33030), promoted to captain March 10, 1972; aircraft maintenance officer, Homestead Air Base; wife, former Kimberly Williams, '69.

2nd Lt. Jerry F. Carlin, '70 and '71 (3570 Clare Ave., Topeka, Kan. 66611), base civil engineering officer, 313th Civil Engineering Squadron, Forbes Air Base.

Lt. Richard C. Hochberg, '70 (D. Btry, 1st Bn., 81st Field Art., APO N.Y. 09035) firing platoon commander, New Uln. Germany; married to former Jean Bodwell, '67.

Lt. Gerald J. Lang, '70 (513-48-0374, 507th HEM Co., APO N.Y. 09165), promoted to first lieutenant; serving in Hanau, Germany.

Lt. Wickham G. Smith, '71 (USN, RID 46, FPO SF 96621), senior advisor to Vietnamese River Interdiction Division 46.

## RETIRED . . .

Paul A. Shepherd, EE '26 (1735 Priscilla Ct., Mountain View, Calif. 94040), retired; captained KSU rifle team; does skeet and trapgun shooting; plays golf.

Ralph Hermon, '27 (1146 Forrest Ave., Kirkwood, Mo. 63122), retired from Southwestern Bell in 1966; part-time consulting engineer; secretary-treasurer, Ozark Natural Gas Co.

Arlie L. Coats, '30 (78 W. Main St., Sidney, N. Y. 13838), retired Dec. 31 after 30 years with Bendix Corp.; was director of quality, Electrical Components Division.

Harold Guy Owen, '31 (11179 Cameo Dr., Sun City, Ariz. 85351), retired two years ago from Conoco Chemicals, West Lake, La.

Yvon Wm. Collins, '53 (S. Coffeyville Okla. 74072), retired in 1969 from Bureau of Indian Affairs; took three-month fishing trip to Seattle.

## MARRIAGE . . .

Jon H. Eshelman, CE '70 (1234 Carr, Memphis, Tenn. 38104); married Judy Hester, '69, in May; transportation engineer, Harland Bartholomew and Assoc.

## BIRTH . . .

Richard A. Litfin, '68 (4985 Franlou Ave., Dayton, Ohio 45432), son, Bill Alan, born July 21.

## DEATHS . . .

Frank Sorgatz, '07, died Aug. 4; had lived in San Diego 63 years.

Merle James Lucas, EE '21, died Sept. 27 at Boone Co. Hospital, Harrison, Ark.; survived by widow, Violet Andre Lucas, fs '23, and three children.

Ernest F. Stalcup, ME '32 (2800 N Atlantic Av., Daytona Beach, Fla. 3201) died of heart attack Nov. 17 while playing golf at Rivera Country Club; survived by his widow, two children; had retired from Westinghouse Electric, Lester, Pa., in 1960.

# ALUMNI NEWS

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**Harley A. Teall, EE '26** (5650 E. Cornell Ave., Denver, Colo. 80222), died July 22; had been retired from Long Lines, AT&T, where he worked 41 years; had recently moved to Denver; survived by his widow, Fern Anderson Teall, fs.

**Edward Joseph Fisher, ChE '30** (152 Mapleton, Baytown, Tex. 77620); died Sept. 7; survived by his widow, Leah Stout Fisher.

**Robert Wilson Miller, ME '32** (1709 N. Roosevelt, Liberal, Kan. 67901), died Jan. 5, survived by his widow.

**Truman Ben Drury, EE '33** (1771 S. Roosevelt, Wichita, Kan. 67218), died Oct. 8; had been with Southwestern Bell since 1934; survived by his widow and two daughters.

**James Albert Bender, '65** (Box 60401, Oklahoma City, Okla. 73106, killed in train-car wreck Oct. 5.

## CLASS NOTES . . .

**William E. Stanley, '12**, moved from Clarendon Hills, Ill., to 112 Brewster La., LaGrange Park, Ill. 60525.

**Howard R. Kieffer, CE '32** (P.O. Box 1977, Cheyenne, Wyo. 82001), supervising instruction of water works improvement in Cheyenne for Black & Veatch Consulting Engineers.

**Wilbur E. Laird, CE '33** (Box 127, Hitchcock, Tex. 77563), an insurance agent; obtained his chartered life underwriter designation four years ago.

**Ralph O. Smith, '33** (47 Faircrest, Hutchinson, Kan. 67501), division engineer, 5th Highway Division, Hutchinson, since Jan. 1.

**John Drisko, '36** (1631 Dodge Ave., Duluth, Minn. 55811), in good health; two daughters.

**Albert P. Prince, EE '40** 3930 Lochbridge, N. Little Rock, Ark. 72116), 31 years with Little Rock District, Army Corps of Engineers; two children.

**Joseph Bruington, EE '42** (810 E. Colter, Apt. 20, Phoenix Ariz. 85014), married; two children; partner, Meier-Bruington & Assoc., consulting electrical engineers.

**Frank W. Jones, CE '43**, residing at 3730 Dale Rd. Saginaw, Mich. 48603.

**Darren B. Schneider, EE '44** (106 Elmwood Dr., Scotia, N.Y. 12302), manager, General Electric Automation Equipment and Systems Products Operation, Schenectady; elected fellow, Institute of Electrical and Electronics Engineers.

**Elmer E. Jones, AgE '48** (2601 Keaton, Bowie, Md. 20715), elected fellow, section on environment, American Public Health Assn.

**Ted Matzkanin, ME '51** (6401 W. 194th St., Stilwell, Kan. 66085), youngest son, Randy L., in mechanical engineering at KSU.



**KSU GETS ELECTRONICS TESTING DEVICE**—The KSU department of electrical engineering has received a \$1,000 sweep frequency generator from Hewlett-Packard, Palo Alto, Calif., through H-P's university gifts program. The device is used for testing microwave printed circuits with a high degree of precision. Dr. Gary L. Johnson, assistant professor, received from H-P's Bob McLeod, Kansas City, Mo.

**Donald E. Kershner, CE '56** 3752 Laguna Dr., Columbus, Ohio 43227), married, three children; chief of program development, 301st Civil Engineering Squadron, Lockbourne Air Base, Ohio, as a civilian; member, American Institute of Plant Engineers (Ohio Chapter).

**Gerald G. Nixon, '59** (41111 Ave. F, Kearney, Neb. 68847), director of physical plant, Kearney State College six years; two sons.

**Richard A. Withrow, '59** (775 Hannah Dr., Merritt Island, Fla. 32952), experiment manager, Skylabs Experiments, National Aeronautic and Space Administration.

**Ken Blevins, '60** (RFD 1, Marmaduke, Ark. 72443), area engineer, Southwestern Power Administration, Jonesboro, Ark.; married, two children; member, Oklahoma Society of Professional Engineers.

**Dr. Larry E. Erickson, '60** (408 Wickham Rd., Manhattan, Kan. 66502); reports that 15 KSU chemical engineering alumni attended a breakfast Nov. 30 during annual meeting, American Institute of Chemical Engineers, San Francisco.

**Bill G. Woolley, '60** (953 Callado, Camarillo, Calif. 93010), targets program engineer; lived in Puerto Rico 1966 to 1969; married, a daughter.

**G. Paul Dobson, IE '60 and '64** (160 Sansome St., 16th Fl., San Francisco, Calif. 94104), senior facilities engineer, Post Office; registered professional engineer.

**James W. Neal, ME '63** (10508 W. 93rd Terr., Overland Park, Kan. 66214), mechanical design supervisor, Wilcox Electric Co., Kansas City, Mo.; three children.

**Dr. Robert C. Iotti, NE '64** (32 Birmingham Dr., Englishtown, N. J. 07726), senior engineer, Ebasco Services, Inc.; married to former Janet Sue Parry, '68.

**Richard M. Zimmer, ME '64 and '65** (225 Baltusrol Ave., Springfield, N. J. 07081, mechanical engineer with Merck & Co.; working on a pharmaceutical complex, Barceloneta, P.R.

**Gerald V. Auchard, '65** (316 Glen Ave., Apt. 203, Salisbury, Md. 21801), employed four years at Dresser Industries; had been with Case Co., Bettendorf, Iowa, 1965 to 1968.

**David P. Fairbanks, '65** (3306 N. 84th Pl., Kansas City, Kan. 66109), project engineer, Owens-Corning Fiberglas, Kansas City; registered professional engineer in Kansas; two children.

**Van Chang, '66** (1128 Belle Ave., Topeka, Kan. 66604), designs bridges for State Highway Commission; married in June 1970.

**Rod Nicholson, EE '67** (P.O. Box 208, Wichita, Kan. 67201), commercial-industrial sales supervisor, Kansas Gas & Electric, Wichita.

**Larry E. Greene, '68** (4510 Briar Hollow Pl., Apt. 316, Houston, Tex. 77027), married to former Lynn Lenoir; sales engineer, Nuclear-Chicago Corp.; hobbies—karate and sailing.

**John Hintz, '68** (12521 W. 97th Terr., Apt. 201, Lenexa, Kan. 66215); with Bendix-Kansas City after three years in Army.

**David Holsinger, '68**, residing at 501 N. Marlborough Ave., Apt. 102, Inglewood, Calif. 90302.

**William R. Klassen, CE '68** (1601 W. 37th Terr., B7, Topeka, Kan. 66611), assistant area engineer, Federal Highway Administration, Topeka.

**Dennis Lee, CE '68**, assistant area engineer, Federal Highway Administration, St. Paul, Minn.

**Fred L. Sachen, '68** (333 Gateway Ct., Blen Burnie, Md. 21061), electronics

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# ALUMNI NEWS

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engineer, Westinghouse, solid state microwave engineering.

Ed Wilson, CE '68, assistant area engineer, Federal Highway Administration, St. Paul, Minn.

Dick W. McCreight, '69 (1006 Le Grand Dr., Lansing, Mich. 48910), product engineer, truck brake drums, Motor Wheel Corp., subsidiary of Goodyear.

Neil F. Pellman, AgE '69 (Box 363, Vienna, Ill. 62995), with Soil Conservation Service as construction inspector on watersheds.

Ronald W. Norton, '70 (232 Bonaire, Liberty, Mo. 64068), test engineer, Dart Truck Co.; doing structural (static and dynamic) testing.

John Young, '71 joined Trane Co., Consumer Products Division sales office, Kansas City, Mo.

## Presentation to Alumni Wives While Men Attend Meeting

Wives of engineering alumni: Are you wondering what you will do while your husband attends the Engineering Alumni Symposium on Saturday morning, March 18? Rest assured there will be something interesting and worthwhile.

Mrs. Margot Chezem, wife of Dr. Curtis G. Chezem, professor and head of nuclear engineering at KSU, will present "Travel to Mexico With Us."

Her presentation, to begin at 9:30 a.m. and continue while the symposium is in session, will include a general talk on Mexico, including the finding and buying of unusual art objects and handcrafts.

# Club Charter Memberships Still Open to K-S Alumni

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## \$/ YEAR<sup>2</sup> CLUB . . .

Phillip C. Vilander, '11; Shelby G. Fell, '15; Roy L. Swenson, '15; Frank R. Rawson, '16; William N. Caton, '17; M. A. Durland, '18; Charles Frankenhoff, '18; Robert A. Graves, '20; Delmar C. Anderson, '23; and John H. Hofmann, '23.

Roy M. Bainer, '26; Paul T. Brantingham, '26; Vernon M. Norrish, '26; Paul Speer, '26; Raymond J. Tillotson, '29; Rex L. Fossnight, '30; Leroy C. Paslay, '30; Ralph C. Hay, '32; Earle E. Comstock, '33; John M. Biddison, '34; Oran S. Emrich, '34; William C. Higdon, '34; and Ovit M. Wells, '34.

Maurice W. Horrell, '35; Stanley T. Merrill, '35; Ben A. Seller, '35; Harry F. Freeman, '36; Loren C. Skinner, '36; William V. Warren, '36; Prof. Alley H. Duncan, '37; Alwin H. Rector, '37; Donald E. Wick, '38; Russell C. Buehler, '39; Fred Meyer Jr., '39; and Grant N. Willis, '39.

George H. O'Brien, '40; James O. Adams, '41; Prof. Gustave E. Fairbanks, '41; Laurence O. Sleaf, '41; Robert B. Washburn, '41; Cdr. Arthur F. Meeks, '42; Earl C. Barb, '43; Warren H. Corbet, '43; Perry C. Peine, '43; John R. Reed, '43; Darren B. Schneider, '44; and Lloyd W. Weller, '44.

Robert L. Higginbottom, '47; William B. Middleton, '47; Leland J. Allen, '48; Robert L. Montgomery, '48; Willis E. Bell, '49; Orland Graber, '49; Robert C. Johnson, '49; Ward A. Keller, '49; Arthur B. March, '49; Luther P. Moore, '49; Edward W. McNaughton Jr., '49; Harold O. Neff, '49; Charles H. Neighbor, '49; Warren G. Rice, '49; Robert J. Scanland, '49; Godfrey M. Spencer, '49; Howard C. Swanson, '49; and Glenn S. Uff Jr., '49.

Harold J. Brown, '50; Thomas Christopoulos, '50; Joseph F. Fehrenbach, '50; Eugene L. Fieldhammer, '50; Norman N. Hansen, '50; Warren L. Hardin, '50; James G. Holman, '50; Edwin H. Kiftner, '50; Richard E. Lancaster, '50; Robert F. Leach, '50; John J. Sandmeyer, '50; Ernest B. Thorn Jr., '50; and Glenn E. West, '50.

Col. Gerald A. Kale, '51; Ronald M. Pilcher, '51; Daniel R. Bennett, '53; Harold H. Haugh, '53; Kenneth R. Collins, '54; David G. White, '54; Dr. H. D. Knostman, '55; William L. Link, '55; Dr. Donald H. Lenher, '56; and Thomas F. Creech, '57.

Jay R. Bohning, '58; Dale W. Steffes, '58; Donald F. Swartz, '58; Kenneth L. Brown, '59; Yah Tung Adam Chen, '59; Charles E. Dorgan, '59; Larry D. Frack, '59; R. Max Mechsner, '59; Prof. Do-Sup Chung; Gilbert W. Egbert Jr., '60; Roy F. Gardenhire Jr., '60; and Lawrence M. Garvin, '60.

W. Joseph Grennan, '60; Roy E. Jeffery, '60; Elmer E. Jones Jr., '60; Larry L. Jones, '60; Jerry R. Robertson, '60; Donald D. Weinmester, '60; Kermit F. Allerman, '61; Gerry C. Balzer, '61; Larry C. Bennington, '61; Harold D. Dent, '61; George P. Dobson, '61; and Dr. Gary L. Johnson, '61.

David M. Popplewell, '61; Lynn R. Shuyler, '61; John S. Tripp, '61; John E. Miller, '62; Po-Shiu Poon, '62; Yosef S. Sherif, '62; Edward L. Weld, '62; Charles E. Wilson, '62; Roger P. Balzer, '63; Gary W. Edwards, '63; Charles D. Haage, '63; Thomas E. Mistler, '63; and E. Vonne Nicklaus, '63.

Ronald B. Bestwick, '64; Darold F. Cole, '64; Vincent H. Gotte, '64; Paul F. Habiger, '64; Donald J. Kidwell, '64; Danny Chic-Chun Ko, '64; Patrick W. Ryan, '64; E. Dawson Ward, '64; Capt. Jerry L. Cassidy, '65; David P.

Fairbanks, '65; Robert M. Hamlett, '65; and James J. Jaax, '65.

Lyle L. Scharenberg, '65; Dr. Hugh S. Walker, '65; Richard C. Carter, '66; Hiriyu Chandrashekar, '66; Van Chang, '66; Jon T. Graves, '66; Keith E. Guthrie, '66; Mickey R. Kilgore, '66; and Harlan D. Stauffer, '66.

Shamal L. Suthar, '66; Wayne F. Westgate, '66; Charles G. Baker, '67; David L. Braun, '67; Venkata R. Chitturi, '67; Dennis M. Clennan, '67; Charles K. Eby, '67; Dr. Donald R. Ferguson, '67; Lewis Yuh-Shu Ho, '67; Kenneth R. Holdeman, '67; Willard A. Miller, '67; Gary A. Vacek, '67; and Chin-Pang Yu, '67.

Rod K. Blocksome, '68; Capt. Francis L. Eisenbarth, '68; James E. Geringer, '68; John Hintz, '68; Wilbur P. Sam Hsieh, '68; Capt. William F. Irvine, '68; William R. Klassen, '68; David J. Langford, '68; Yoi-Hung Liu, '68; Peter S. S. Maa, '68; and Satishchandra Mehta, '68.

Stresewski Jr., '68; Peter B. Thomas, '68; Billy I. Tsai, '68; Yie-Shou Wu, '68; Steven R. Beck, '69; Michael A. Farnsworth, '69; Rex E. Garrelts, '69; Jagan N. Gosain, '69; Lt. Ron D. Hoagland, '69; Daryll D. Jamvold, '69; and Gary W. Larson, '69.

Larry R. Larsen, '69; Tzong-Nan Lin, '69; James T. Lundblad, '69; Victor C. Moser, '69; Iraj Rojhani, '69; R. P. Sharma, '69; Bruce N. Yamashita, '69; Danny L. Brown, '70; Aaron E. Carlson, '70; T. T. Chan, '70; Jon H. Eshelman, '70; Steven B. Farabi, '70; William J. Fields, '70; and Dennis E. Grennan, '70.

Clare M. Hakeman, '70; Lt. Michael R. Heer, '70; Robert S. Kay, '70; Michael D. Kyser, '70; Lt. Gerald J. Lang, '70; Lt. David L. Lierz, '70; Bennie L. Martin, '70; Ronald W. Plemons, '70; B. V. Rao, '70; Douglas E. Robker, '70; Rodney L. Stevens, '70; Timothy Suellentrop, '70; and Clifford G. Turnbull, '70.

Dwight E. Wiggins, '70; Kent E. Woodley, '70; Steven C. Butterworth, '71; John W. Hodler, '71; Dr. Fu-Tong Hsu, '71; David O. Smith, '71; Eugene C. Smith, '71; and Warren N. West, '71.

## WARD HALL DONORS . . .

Allis Chalmers Foundation; Delmar C. Anderson, '23; William B. Bachelor, '49; William Bisbee, '51; Rod K. Blocksome, '68; Kenneth L. Brown, '59; Gary S. Burgin, '66; Aaron E. Carlson, '70; C. T. Carter, '38; Capt. Jerry L. Cassidy, '65; Teh-Tsun Chan, '70; Prof. Do-Sup Chung, '60; and Dow Corning.

Charles E. Dorgan, '59; Charles K. Eby, '67; Gen. G. E. Edgerton, '04; Capt. Francis L. Eisenbarth, '68; E. E. Ericson, '38; Dr. Donald R. Ferguson, '67; Thomas A. Gerdis; Clare M. Hakeman, '70; Harold H. Haugh, '53; Lt. Ron D. Hoagland, '69; Kenneth R. Holdeman, '67; and James G. Holman, '50.

Maurice W. Horrell, '35; William T. Howard, '28; Jay S. Huebner, '61; David J. Langford, '68; Larry R. Larsen, '69; Peter S. S. Maa, '68; Bennie L. Martin, '70; Robert L. Montgomery, '48; NCR Foundation; Charles H. Neighbor, '49; Vernon M. Norrish, '26; Clifford W. Phares, '47; and Ronald M. Pilcher, '51.

Charles J. Sheetz, '40; Yosef S. Sherif, '62; Lt. Philip M. Smith, '70; Harlan D. Stauffer, '66; K. K. Steinkirchner, '50; Freeman M. Vicory, '48; John F. Weary, '41; Donald D. Weinmeister, '60; and Robert O. Wertenberger, '48.

\*Denotes KSU engineering faculty member.

## REGISTRATION, LUNCHEON, AND BANQUET RESERVATION

- I am planning to attend the Fourth Annual Engineering Alumni Symposium on March 18.
- My wife is planning to attend the Ladies' Program held during the symposium.
- I am planning to attend the Open House Noon Luncheon on March 18. Please reserve \_\_\_\_\_ places for me at the Luncheon (\$1.70 per ticket).
- I am planning to attend the Open House Awards Banquet at 6 that evening. Please reserve \_\_\_\_\_ places for me at the Banquet (\$3.50 per ticket).
- Enclosed find check or money order in amount of \$\_\_\_\_\_ for tickets as indicated above. Please remit by March 13.

Ticket(s) may be returned to me at the following address:

Name \_\_\_\_\_ Class of \_\_\_\_\_

Street \_\_\_\_\_ Box \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please return this form to:

Alumni Symposium  
KSU College of Engineering  
Seaton Hall  
Manhattan, Kansas 66502

# KSU ENGINEERING ALUMNI NEWS FALL 1972

## CLASS NOTES . . .

**Samuel E. Morlan**, EE '04 (4686 Eliot, Denver, CO 80211); retired; wife, former Edith Angle; children—Erwin Angle Morlan, 60; Harvey Byers Morlan, 55; and Mary Morlan Heinrich, 50.

**Glenn R. Fickel**, EE '12 (703 Egbert St., Brighton, CO 80601); retired in 1970; designed and supervised installation of equipment; married to former Nina W. Bacon; a daughter.

**Francie N. Brooks**, CE '24 (404 W. Osage, Sedan, KS 67361); fully retired from engineering services in Sedan; enjoys traveling and fishing; married to former Lizena F. Brooks.

**Frank V. Houska**, CE '25 (2117 Parkview Dr., Springfield, IL 62704); employed 1925 to 1962 as civil engineer by Illinois Department of Transportation; last eight years as assistant bureau chief of research and planning; retired in 1962; wife, Helen, and two sons—George and Ronald.

**Delos C. Taylor**, CE '25 (Box 66, Rotonda West, FL 33946); now resides at 120 Rotonda Circle in Rotonda West; moved here recently from Manhattan, Kan.; retired from KSU applied mechanics faculty.

**Fred C. Mason**, CE '26 (342 Orchard St., Elgin, IL 60120); plans to celebrate 50th wedding anniversary in Manhattan June 3, 1976; wife, former Floy May Woodall, Hutchinson; three married daughters—Joyce, Shirley, Martha; retired April 3, 1968 from Illinois Department of Highways after 41 years; after KSAC graduation, worked 10 months for Pennsylvania Highway Department before joining the Illinois Department.

**Oswald J. Lacerte**, EE '27 (254 Lyndol St., Lakeland, FL 33801); recently moved to Lakeland from Ft. Wayne, Ind.

**Loyal H. Davies**, CE '29 (711 Stackman Dr., Apt. C, Wichita, KS 67203); retired after 41 years with Cities Vice Oil Co., Natural Gas Liquids Division; worked in operation and construction of plants for extraction of liquids for natural gas; wife, former Leone Wilson, PE '30; no children.

**O. D. Hunt**, EE '30, (1822 Poyntz, Manhattan, KS 66502); retired in June 1970 from EE faculty; taught fall semester night course at Salina on illuminating engineering; plays golf 3-4 afternoons a week.

**Leslie Rufus King**, CE '31 (924 E. North Ave., Lompoc, CA 93436); died Sept. 7; had been ill with cancer 19 months; enthusiastic K-Stater and professional engineer; survivors—Olive Bland King, HE '30; daughter; two grandchildren; brother; sister; interment, Garden City, Kan.

**Robert Lengquist**, ME '31 (2348 Westview Way, San Rosa, CA 95401); in good health, four children, 10 grandchildren; chief engineer, Thermal Power Co. (geothermal steam), San Francisco, since 1965; married in 1929 to Pauline R. McCumber of KSU; no traveling.

## Recommend Future Students By Returning Card

A business reply card has been enclosed along with this IMPACT and the KSU Engineering Alumni Newsletter. Please send us the name of a prospective engineering student. We will send appropriate information to these students.

Please invite the prospective student you recommend to us to come with you and your family to the 49th annual KSU Engineering Open House set for Friday and Saturday, March 30-31. The open house will be well worth your time and effort in coming to Manhattan.

Do not hesitate to contact us at the College whenever we can be of assistance to you.—Dr. Kenneth K. Gowdy, Assistant Dean.

**Russell E. James**, ME '32 (50 Chumaseo Dr., Apt. 3B, San Francisco, CA 94132); took graduate study in advanced machine design; now assistant regional post-master general-mail processing, since March 1969; previously with Boeing 29 years.

**C. W. Kewley**, ME '32 (Box 37, Logan, KS 67446); retired from Atlantic Richfield Oil Co., April 1, 1971; wife, former Wilma E. Copper, 'fs; two children residing in Cherry Hill, N.J.

**Warren R. Lyttle**, EE '33 (517 N. Dellrose, Wichita, KS 67208); plant electrical engineer 32 years, Beech Aircraft, Wichita; wife, former Ruth Kistler, HE '33; three daughters—Janet and Joan, twins, and Jane, all married.

**Dr. Earle L. Kent**, EE '35 and '36 (1600 Lawndale Rd., Elkhart, IN 46514); data processing manager, Oaklawn Center, Elkhart; systems analysis, programming and supervision of EDP, research on delivery of services and goal attainment; past recipient, KSU Distinguished Service Award in Engineering.

**D. J. Hinman**, ME '36 (Box 580, Gulf Breeze, FL 32561); retiring from teaching physics, applied mechanics and drafting at Pensacola and Okaloosa-Walton junior colleges to start a TV service business in Gulf Breeze; wife, former Madgalene Wegner, Ft. Hays '36; will teach two more years; he was in engineering 29 years before retiring in 1965.

**Brig. Gen. (ret.) Chester H. Johnson**, CE '38 (915 W. 39th St., Shawnee, OK 74801); elected trustee, KSU Endowment Assn., 1971; retired from U.S. Army in June 1970.

**Robert J. Spiegel**, CE '38 (10011 Flora Ave., Kansas City, MO 64131); consulting practice in Kansas specializing in soils and foundations; wife, Joan, retired from University of Missouri in 1970; retired from Corps of Engineers in March 1970 after 30 years; two sons—Jerry and John, both married with children.

**Walter E. Hanson**, CE '39 (81 Linden La., Springfield, IL 62707); president, Hanson Engineers, Inc., formerly Walter E. Hanson Co.; recently elected president of University of Illinois Civil Engineering Alumni Assn. where he received his M.S. in CE in 1947.

**Dr. William H. Honstead**, ChE '39 and '46 (1926 Montgomery Dr., Manhattan, KS 66502); director, Kansas State University Industrial Extension Service; vice president, Tri-Valley Chapter, Kansas Engineering Society.

**Fred F. Townsend**, CE '40 (2020 Holly St., Eureka, CA 95501); retired from F.A.A. in July 1970; living "good life" with wife, former Dolores Donez; spent last winter traveling in Mexico; spent summer salmon fishing; son, Royce, physicist and computer programmer at Pt. Mugu Naval Test Center; daughter, Marlene Wilder, Van Nuys, Calif.

**Prof. Gustave E. Fairbanks**, AgE '41 and '57 (2128 Blue Hills Rd., Manhattan, KS 66502); KSU professor of agricultural engineering; chapter director, Tri-Valley Chapter, Kansas Engineering Society.

**Robert A. Peterson**, '41 (512 Devon Rd., Haddonfield, NJ 08033); engineering leader, Signal Processing Skill Center, Missile and Surface Radar Division, RCA, Morristown, N.J.; three children—Mrs. Susan J. Weaver, 27; Mrs. Barbara E. Wenger, 25; and Robert A. Peterson Jr., 22.

**Frank Warren Jones**, CE '43 (3730 Dale Rd., Saginaw, MI 48603); promoted from township engineer to township manager, first manager of a general law township in Michigan; retired from Navy Civil Engineer Corps in 1970; holds M.S. in management from Naval Postgraduate School, Monterey, Calif. (1963).

**Carl L. Tucker**, ME '43 (14 Apple Tree La., Basking Ridge, NJ 07920); vice president-engineering, Climate Control Division, Singer; supervises research and development engineering; recognized authority in heating and air conditioning with 30 years experience.

**Paul R. Curry**, ChE '50 (17172 Sunburst St., Northridge, CA 91324); systems engineer, Lockheed California Co.; on S-3 new design project; M.S., aerospace engineering, University of Arizona, 1968; married to former Sherrill Seymour; three daughters—Elizabeth, 15, Barbara, 13; and Marilyn, 12.

**John E. Lane**, EE '50 (Box 244, Lyndon, KS 66451); consulting electrical engineer; wife, former Dorothea G. Roberts; daughter, Sarah Anne Hays, Topeka, Kans.; professional engineer.

**Bedford A. Magnus**, EE '50 (520 Warren Rd., El Dorado, KS 67042); division manager, Kansas Gas & Electric; two daughters attending KSU—Sandra Rae, 21, senior in fashion merchandising; Janet Sue, 19, sophomore in medical technology; wife, Lois L. Magnus.

**Donald R. Ross**, ME '50 (8 Lee Dr., Effingham, IL 62401) vice president-general manager, Fedders Corp., Effingham Norge Division; wife former Nancy L. Kaaz;

(Continued on Next Page)

## Ward Hall Total Reaches \$52,900, Goal Is \$110,000

Dr. Ralph G. Nevins, KSU dean of engineering, reports that total contributions to the Ward Hall (Nuclear Engineering) Mortgage Fund had reached \$52,900 as of Dec. 31, 1972.

Three new members of the \$/Year<sup>2</sup> Club were reported: Robert G. Carlson, '54; Marlin D. Breer, '63; and Dennis R. Unruh, '66. The Bendix Corp. matched a gift by Leon W. Schindler, '40.

In addition, Duane O. Townley, '64, made a contribution to the Ward Hall Mortgage Fund.

As a KSU engineering alumnus, you are eligible to join the KSU engineering Dean's Club or the \$/Year<sup>2</sup> Club. The Dean's Club (members who pledge \$500 or more to be paid within five years) now has 65 members.

Dean Nevins reports a total of 638 engineering alumni have joined the \$/Year<sup>2</sup> Club, agreeing each year to contribute \$1 for each year that has passed since their graduation from the College: for example, a 1970 graduate would contribute \$2; 1965 grad, \$7; 1955, \$17; 1940, \$32; 1925, \$47; etc.

(Continued on Page 4)

## Seek Support For KSU Engineering

The KSU College of Engineering and the engineering department from which you were graduated are in continuing need of substantial endowment support for scores of very worthy activities and programs not covered by state appropriations.

There are many ways to support K-State engineering programs. We suggest unrestricted gifts for the Dean to use where they are most needed. Other ways include student scholarships and fellowships, faculty research and professorships, equipment, honorary or memorial awards, etc. Contributors can give annually through the \$/Year<sup>2</sup> Club and the Dean's Club. Also through such deferred giving programs as annuities, wills, bequests, life income plans designed to benefit YOU FIRST and the College or department second.

For more details, please phone (AC 913 532-5590) or write to:

**Dr. Ralph G. Nevins, Dean  
KSU College of Engineering  
Seaton Hall  
Manhattan, Ks. 66506**

## ALUMNI NEWS

seven children—Douglas, 23; Donita Haller, 25; Stephen, 21; Rick, 19; Susan, 18; John D., 16; and Amy, 14.

William D. Widdows, CE '52 (204 Gail St., Prattville, AL 36067); attending Air Force Command and Staff College, Maxwell AFB, Ala.; will complete in June 1973.

Dr. J. O. Mingle, ChE '53 and '58 (2408 Buena Vista, Manhattan, KS 66502); president-elect, Tri-Valley Chapter, Kansas Engineering Society; professor of nuclear engineering at KSU.

William H. Rathbun, EE '53 (36 Tamarack R., Pittsfield, MA 01201); manager, advanced mechanical development engineering, Power Transformer Dept., G.E., Pittsfield; wife, former Barbara Buck; children—Anne, Sharon, Harold and Elizabeth.

James P. Jones, CE '54 (7405 S. Woodward Ave., Woodridge, IL 60515); new position—chief, Operations Division, Chicago District, Army Corps of Engineers, Chicago; wife, former Elizabeth A. Jones.

Dr. Robert R. Snell, CE '54 and '61 (1631 W. Osage, Manhattan, KS 66502); professor and head of civil engineering, KSU; state director, Tri-Valley Chapter, Kansas Engineering Society.

Melvin L. Ruthrauff, ChE '55 (1412 Locust St., Canal Fulton, OH 44614); environmental-safety administrator, Babcock & Wilcox Power Generation Division, Barberton, Ohio; involves nine manufacturing works and construction activities in U.S. and Canada; registered professional engineer in Louisiana; wife, former Wanda Nixon, Waco, Tex.; four children—Michael, 19, Stephen, 17, Laura, 10, and Jeremy, 3; formerly environmental control engineer, DuPont Pontchartrain Works, LaPlace, La.

Roger B. Wilcox, ME '55 (1471 Ormsby Dr., Sunnyvale, CA 94087); reliability specialist, Lockheed Missiles & Space Co.; he and wife Carolyn married 13 years ago in Cincinnati, Ohio; two children—Todd, 7, and Jennifer, 9.

Martin S. Klotzbach Jr., EE '58 (5013 W. 26 Terr., Topeka, KS 66614); electrical engineer, Kansas Power & Light; wife, former Theresa R. Brandt; three daughters—Stacy, 10; Katrina, 9; and Tania, 5; working on computer solution of engineering problems; computer planning simulation studies.

Dr. Clyde H. Sprague, ME '58 (2504 Rogers Blvd., Manhattan, KS 66502); moving from K-State to associate professor of engineering, University of Texas of the Permian Basin, Odessa, effective Feb. 1; new university opening next fall.

Gerald G. Nixon, ME '59 (1830 W. 30th Terr., Topeka, KS 66611); newly-registered professional engineer in Kansas; with Allis Chalmers.

Warren H. Blacklock, IE '60 (3907, R3, Louisville, KY 40299); with G.E. Home Laundry Div., Appliance Park, Louisville, Ky.; position—adv. mfg. engr. for projects; concerned with future direction of plastic molding and die casting in Louisville operation; wife—former Elizabeth Shaw, Syracuse, '60; son, W. Harry Jr., 6, daughter, Laura K., 8.

Larry L. Jones, EE '60 (1818 Orchard Dr., Lee's Summit, MO 64063); new position—department chief, quality control, life and environmental development, Western Electric, Kansas City Works.

J. Don Clarke, EE '61 (2 Avenida de las Flores, Thousand Oaks, CA 91360); senior engineer, McDonnell-Douglas Astronautics Co., inertial systems section; married, two children.

Deney J. Geisf, CE '61 (9002 E. Maple Leaf Dr., Tucson, AZ 85710); project engineer, Cells, Barr, Evans, & Assoc.; registered professional engineer in Missouri, Iowa, and Arizona; recently moved to above address.

Dr. J. A. Huebner, EE '61 (10258 Fontana Ct., N., Jacksonville, FL 32211); with department of natural sciences, University of North Florida, Jacksonville.

Junior K. Thiry, ME '63 (5 W. Rocks Rd., Norwalk, CT 06851); new position, staff analyst, Function Review Department, TWA Corporate Headquarters, New York; married, two children.

Herbert N. Whitney, CE '63 (7321 S. 70th E. Ave., Tulsa, OK 74101); promoted to region facilities coordinator, Marketing Division, Cities Services Oil Co., Tulsa; directs eastern half of marketing terminals, warehouses, and truck fleet; wife, Mary Sue, '63; three children—Eric, 5, Kevin, 2, and Melinda, three months.

James L. Chaffee, CE '64 (1014 Blument, Manhattan, KS 66502); new director of public services, City of Manhattan, Kan., since Oct. 2; was city engineer in Pendleton, Ore.; wife, Shirley; two children—Mark, 8, Wendy, 5.

Jon Rueck, NE '64 and ME '71 (2136 Marlow Rd., Toledo, OH 43613); controller and environmental specialist, Environmental Services Div., Owens-Corning-Fiberglas, since Dec. 13, 1971; engineering consultant to corporation on solid waste matters; wife, former Connie Dick; two children—Michael, 7, and Robin, 4.

Robert O. Avery, CE '65 (901 Randall Rd., Lawrence, KS 66044); engineer, Sunflower Office, Omaha District Corps of Engineers, Sunflower, Kan., since Oct. 3; recently moved from Langdon, N. Dak.; married former Joyce Kuhns, PE '65; two sons—Jeff, 7, Greg, 4.

Kenneth S. Langley, EE '65 (632 Duane St., Glen Ellyn, IL 60137); instrumentation and control engineer with Pioneer Service & Engineering Co., Chicago; responsible for hardware and software systems in application of computer techniques to process instrumentation and automation in nuclear-fueled and fossil-fueled electric



**DEAN ANDREY POTTER VISITS KANSAS STATE UNIVERSITY** — Professor Andrey A. Potter (l.), KSAC dean of engineering from 1913 to 1920, was a special guest of honor Dec. 4 in the KSU College of Engineering. He met with many current and emeritus faculty members including L. M. Jorgenson (c.) and O. D. Hunt who are emeritus professors of electrical engineering.

## A. A. Potter Entered E.E. Despite Warning By Dean

An 89-year-old alert engineer known to many KSAC engineers who graduated between 1905 and 1920 paid a visit to Manhattan and K-State Dec. 4. His friends and associates in the College of Engineering were very impressed with his sharp mind and good health after spending a day with him.

The guest: Prof. Andrey A. Potter, dean emeritus of engineering and director emeritus of the Engineering Experiment Station at Purdue University.

Dean Potter, dean of engineering at KSAC from 1913 to 1920, gave a lecture on "Engineering Education" and was honored at a luncheon.

"We are pleased that Dean Potter has maintained his interest and association with KSU over the years. He still takes pride in the College of Engineering. His contributions to engineering education at K-State were many. We are pleased that he was able to be with us and share his many years of experience," said Dr. Ralph G. Nevins, K-State's dean of engineering.

Potter came to K-State as an assistant professor in 1905 and in 1910 he was named professor and head of steam and gas

generating stations.

Lorin E. Lowe, ME '65 (1101 Sioux St., Athens, TN 37303); he and his wife Ina have adopted a son, Gerald Timothy, born March 3, 1972.

Kenneth W. Seibel, ME '65 (11602 Hillcroft, Houston, TX 77035); assistant engineering manager, Hines Interests; wife, former Nancy Eilrich, PE '65; Seibels returned in August from two-month world tour; she received master of education, University of Houston, '71.

Jay Weichert, EE '65 (Rt. 2, Box 71B, LaGrange, KY 40031); design engineer, G.E. Home Laundry Div.; wife, former Shelia Holland; two daughters—Anna Lee, 8; Bonnie, 6.

Atty. Robert D. Crangle, NE '66 (60 Paul Revere Rd., Arlington Hts., MA 02174); JD '69, Harvard; wife, former Joanne Rose, 'fs; children—Robert D. Jr., 3, Eleanor, 1; foster children—Ron Fisher, 5, Tony Fisher, 3; with Harbridge House as consultant (senior associate) in

engineering when the department of mechanical engineering was subdivided into five sections.

In 1913, Potter was named acting dean and from 1914 to 1920 was dean of the Division of Mechanic Arts. This division later became the Division of Engineering.

Dean Potter was one of a committee of two establishing the semester system at K-State. He also compiled a calendar adapting the change from a three-term plan to the semester system. Its essential features still are in use today at KSU.

He came to the U.S. from Vilna, Lithuania, in the late 1800's and graduated from MIT in 1903. In his spite of his engineering dean's plea that he do something practical, Potter did his thesis on electrical power transformers. "There's no future in electrical engineering," his dean had told him.

In 1903, Potter went to work for GE as a result of his thesis on transformers. He worked in the research department for over a year. That year he submitted several ideas which GE quickly patented and for which he received a grand total of \$20.

Potter did such a good job that he was moved to a different office and in mechanical engineering. In 1904, he was made a junior member of the American Society of Mechanical Engineers. Soon after that GE sent him to Manhattan and he joined K-State as an assistant professor.



# March 31 Alumni Symposium Includes N.A.S.A. Speakers

The College of Engineering will host its fifth annual Engineering Alumni Symposium on Saturday, March 31, in the K-State Union. Registration will begin at 8:30 a.m.

The alumni event will be held in conjunction with the 49th annual Engineering Open House set for Friday and Saturday, March 30-31.

Sessions for the symposium will be from 9:15 to 11:30 a.m. Three speakers from the National Aeronautics and Space Administration will be featured.

Speakers will be from three NASA installations: Washington, Goddard Space Flight Center, and Houston.

They will address themselves to the important and timely theme—"Beyond the Moon to Earth," an overview of the applications of space systems to the solution of our contemporary engineering problems.

Dr. Ralph G. Nevins, dean of engineering as KSU since 1967, will preside over the symposium. "It should be a highly worthwhile meeting," Nevins said.

Again this year there will be a wives' program conducted while the symposium is in session. Look for a further announcement on the ladies program in the next issue of this Newsletter.

An Open House awards banquet is set for 30 to 8 p.m. Saturday. The Distinguished Service Award in Engineering, various student awards, and some fine entertainment will all be part of this fifth annual banquet program (\$3.50 a ticket).

Make plans to attend as soon as possible. A clipout coupon to help you and your family register for the symposium is provided below. Mail it and your check for meal tickets at your earliest convenience.

The time and effort involved will be well worth it. —Tom Gerdis, Editor.

## ALUMNI NEWS

procurement, law, public operations management, and nuclear related industries; wife, special M.I.T. student; hobby—building addition to house.

Thomas W. Eagles, ME '66 (23609 Moneta Ave., Carson, CA 90745); M.S. '71, aerospace engineering, Air Force Institute of Technology; AF captain stationed with AF plant representative office, Northrop., Hawthorne, Calif.; wife, former Karen Sue Martinson, '64 in physical sciences; son, Brian, 4, daughter, Diane, 3 months.

James H. (Jim) Wesch, ME '66 (2657 Summer La., Salina, KS 67401); chief engineer, Wyatt Mfg. Co., Salina; married; two children—Robbie, 6, Billie, 5.

Jon Howard Peterson, EE '68 (1500 - 7th Ave., N.E., Rochester, MN 55901); senior associate engineer, System Development Div. Laboratory, IBM; wife, former Margaret Mary Frie; daughter, Rebecca Rachel, 16 months.

Thomas W. Skinner, ChE '68 (1025 "B", Franklin, LA 70538); superintendent, oil and special blacks unit, Cabot Corp., almost four years; he and wife Betty have a daughter, Karen, 2.

Dr. Edward A. Travnicek, ChE '68 (12 Pidgeon Dr., Wilbraham, MA 01095); new position—senior research engineer, American Optical Corp., Southbridge, Mass.; since Oct. 16; formerly with Monsanto, Springfield, Mass.; children—Julie, 4, Andrew, 18 months; wife, former Dorothy Meyer, '61; she was on foods and nutrition faculty, KSU, 1965-1968.

Dr. Paul E. Gray, EE '69 (515 - 5th Ave., Greensboro, NC 27405); chairman, EE Dept., North Carolina A&T State University; 30 publications; published a volume of poetry; 1971 Engineering Teacher of the Year at A&T.

Victor C. Moser, CE '69, now residing at 4323 Indian Creek Rd., Topeka, KS 66617.

Nawa Quraishi, IE '69 (8822 Whitlock, Dearborn, MI 48126); joined Ford Motor Company in May.

Wolfgang P. Schmidt, EE '69 (Box 2408, Platte City, MO 64079); assistant district engineer, Missouri Public Service Co., Platte City; wife, former Bonnie Rice; two children—Peter, 3, Jennifer, 18 months.

Allen Hahn, ME '70 (114 Jupiter Rd., Apt. 112, Garland, TX 75042); mechanical engineer, Texas Instruments; "working on side trying to help start a company to build PTA systems for square dance callers."

Randall W. Koudele, ME '70 (2017 Jeanette, Wichita, KS 67203); production engineer, Cities Service, Mid-Continent North Region Production Office; wife, former



**CZECH ENGINEER—Imrich Soka (l.), an engineer from the Agricultural University of Nitra, Czechoslovakia, is visiting the department of agricultural engineering. He is studying automatic control of hydrostatic transmissions and hydraulics under Dr. Stanley J. Clark, associate professor. They confer with Dr. William H. Johnson (r.), head of agricultural engineering.**

H. Celia Wilson, '71.

James H. Allen Jr., CE '71 (274 Reilly Rd., Fayetteville, NC 28303); son, James H. III, born Sept. 7; promoted to 1st Lt., Oct. 9; stationed with 82nd Airborne Div., Ft. Bragg, N. C.; wife, Betty June Allen.

Robert W. Jones, CE '71 (4960 S. Seneca, No. 24, Wichita, KS 67217); field engineer, Utility Contractors, Inc., Wichita; wife Kathryn Jean Jones, formerly of Manhattan, Kan.

Keith M. Stutterheim, CE '71 (706 W. Prescott, Salina, KS 67401); engineer-in-training in Kansas; with Wilson & Co., Salina, engineers and architects.

Rodney L. Webring, ME '71 and '72 (110 Valley Dale Dr., Lynchburg, VA 24505); engineer with Power Generation Div., Babcock & Wilcox; wife, former Margaret Miller.

## 49TH OPEN HOUSE MARCH 30-31

### REGISTRATION, LUNCHEON, AND BANQUET REGISTRATION

- I am planning to attend the Fifth Annual Engineering Alumni Symposium on March 31.
- My wife is planning to attend the Ladies' Program held during the symposium.
- I am planning to attend the Open House Noon Luncheon on March 31. Please reserve \_\_\_\_\_ places for me at the Luncheon (\$2.50 per ticket).
- I am planning to attend the Open House Awards Banquet at 6 that evening. Please reserve \_\_\_\_\_ places for me at the Banquet (\$3.50 per ticket).
- Enclosed find check or money order in amount of \$\_\_\_\_\_ for tickets as indicated above. Please remit by March 23. Make check payable to KSU Endowment Assn.

Ticket(s) may be returned to me at the following address:

Name \_\_\_\_\_ Dept., Yr. \_\_\_\_\_

Street \_\_\_\_\_ Box \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please return this card to:

Alumni Symposium  
KSU College of Engineering  
Seaton Hall  
Manhattan, Kansas 66506

# Year-In-Industry Experience Beneficial for Dr. Lindholm

Dr. John C. Lindholm, ME '49 and '57, KSU associate professor of mechanical engineering, has returned to the K-State engineering faculty after spending a year in Wilmington, Del., participating in the E. I. DuPont DeNemours Company Year-in-Industry program.

Lindholm, who was on leave from his position in the K-State department of mechanical engineering, resumed his teaching duties and research activities fall semester.

"The purpose of my 'year-in-industry' was to update me, as an engineering educator, with the needs of the young engineer planning a career in the chemical process industry.

"I spent time in various divisions of the DuPont engineering department to learn about the different job opportunities and the educational requirements for university-trained engineering graduates," Lindholm explained.

Lindholm worked out of the DuPont engineering departments' services division as a consultant mechanical engineer in projects dealing with fatigue properties of material as well as vibrations.

"I also helped design plant facilities for the production of films and other plastic materials such as MYLAR<sup>®</sup>, a plastic used for computer tapes and electrical insulation.

"I also spent time in the research and development division developing new techniques for analyzing stress in various kinds of materials," Lindholm said.

Another project was to "come up with some alternative designs for a machine to handle yarn fibers," he pointed out.

His experience working on these projects will be especially helpful to him in classroom teaching and conferences with students.

"These work experiences will provide me with an additional set of examples I can use to make classroom material more relevant

Dr. John C. Lindholm



to students," he said.

Lindholm found his year-in-industry experience to be highly beneficial to him as an engineering educator. He believes such work experiences are valuable for engineering educators so that they can train their students to better meet the requirements of the jobs they will assume after leaving school.

## Ward Hall Contributions Reach \$52,900; Goal Is \$110,000

(Continued from Page 1)

If you wish, you may also make a contribution designated to the Ward Hall Mortgage Fund. Your participation is solicited and very much needed. See the Goal Thermometer on page 4 of this Newsletter.

Please send your check or money order (made out to KSU Endowment Assn.) to Dean R. G. Nevins, KSU College of Engineering, Seaton Hall, Manhattan, Ks. 66506. Dr. Nevins' phone: Area Code 913 532-5590.

Contributions received on or after Jan. 1, 1973 will be published in the next issue of KSU Engineering Alumni News.

Editor's Note: Enclosed along with this issue is an Engineering Alumni Activities Reporting form on page 4.

### WARD HALL MORTGAGE FUND REPORT



## Pittsburg's Edward McNally To Complete Council Term

Edward T. McNally, Pittsburg, Kan., member of the KSU Engineering Advisory Council since August 1970, will step down from the Council after completing his two-year term in late March.

McNally, president of McNally-Pittsburg Manufacturing Corporation, Pittsburg, commented "I have thoroughly enjoyed my assignment on the Council, and I have a much better comprehension now of the problems that confront people running first-class engineering schools."

### 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.

# Questions Whether Demand for Energy Too High, Too Fast

(Continued from Page 1)

feels are important to the development of a national energy policy. Among his points: prime consideration should be our national security—the U.S. should control energy sources and supplies; maximum use of domestic energy sources.

Taking a different slant, Dr. Gibbons, director of environmental studies at ONRL, raised some questions as to whether the demand for energy is going to increase as rapidly as many interest groups are predicting.

He wonders if the public is willing to pay the price of energy produced by nuclear reactors with many expensive safety restrictions. He feels this could cut the demand for energy.

Putting it another way, Gibbons said "how many belts and suspenders do we want to wear?"

A partnership between coal and nuclear power, "mainstays of the nation's hope for an adequate domestic supply of energy," was promoted by Bagge.

"The coal industry supports the federal research to develop a breeder reactor to make the most efficient use of our uranium resources.

"We are gratified that there is gradually increasing federal research in coal, but there must be more. The nuclear energy industry has borrowed far more power from coal to convert uranium fuel to usable reactor fuel through the enrichment process than it has returned to the national energy supply in the first 25 years of its life," Bagge said.

Some 200 persons attended the dedication

(Continued on Page 4)

# Need for Engineers Is Growing, But Report Enrollment Drops

(Continued from Page 2)

Blackwood, CE, Public Health Service, Sells, Ariz.; Daniel William Bosch, EE, Schlumberger Limited, Houston, Tex.; and Hays Albert Brickell, CE, Public Service Co. of Colorado.

Steven L. Brodmerkle, NE, Texas Electric Service, Ft. Worth; Stan J. Buller, EE, seeking M.S. at KSU; John F. Corman, ME, Eastman Kodak, Rochester, N.Y.; Keith Wayne Fager, EE, Burns & McDonnell, Kansas City, Mo.; Randy W. Fiorucci, CE, Black & Veatch, Kansas City, Mo.; and James D. Freed, EE, Motorola Semiconductor Products, Phoenix, Ariz.

Norris D. Going, EE, seeking M.S. at Georgia Tech; William A. Goodman, IE, 2nd It., Ft. Sill, Okla.; Paul T. Hardman, ChE, 2nd It., McConnell AFB, Wichita; Dean Alan Hays, EE, Applied Technology, Sunnyvale, Calif.; Richard D. Hoagland, EE, Kansas Gas & Electric, Wichita; and Alan W. Johnson, Sundstrand Hydro Transmission, Ames, Iowa;

Wayne R. Keller, EE, Kansas Gas & Electric; Kent M. Killmer, CE, Ceco, Chicago; John A. Kramer, AgE, seeking M.S. at KSU; Mark A. Murphy, ME, Goodyear Tire, Topeka, Kan.; Ed Neibling, AgE, Campus Crusade for Christ at KSU; Michael Ray Patrick, ME, 2nd It., Ellington AFB; and Wayne A. Petrik, ME, Halliburton Services, Wichita.

Richard Ransom Ray II, ME, seeking M.S. at KSU; d L. Roach, 2nd It., Hanscom AFB, Mass.; Jerry C. J. Jinson, ME, General Electric, Cincinnati; David G. Schneck, EE, seeking MBA at KU; Craig W. Smith, ChE, Monsanto Chemical, St. Louis; Terry V. Smith, EE, Bendix-Kansas City; Bradford Ted Taylor, EE, Boeing, Wichita; Juan F. Villarreal, NE, General Electric, San Jose, Calif.; and Don L. Wiruth, CE, MAPCO, Tulsa, Okla.

\* Denotes May 1972 graduate.



THE LATE TOM GRIFFITH of Manhattan, Kan., member of the Kansas Board of Regents, lauded K-State Nov. 4 at the dedication of the addition to Ward Hall (Nuclear Engineering). At the right is Dr. Hermann J. Donnert, emcee at the dedication.

## Awarded G. E. Contract . . .

# Gallagher Models Functions

A KSU bioengineer has announced "significant progress in the development of mathematical descriptions" of many human physiological functions for use in space programs.

This modeling effort will be particularly useful for analysis and predictions of man's performance while carrying on daily activities in unfamiliar environments, such as those associated with NASA projects, says Dr. Richard R. Gallagher, assistant professor of electrical engineering.

"My work is just one component of the overall NASA research program of physiological monitoring and simulation.

"We've made progress in describing these functions. But their adaptability to special environments, such as those to be found in the NASA Skylab and future space



Dr. Gallagher

shuttle programs, opens up an unlimited research area," Gallagher pointed out.

Gallagher has been recently awarded a \$5,333 research contract by the General Electric Company to conduct this study.

The K-State Engineer, magazine of the engineering student body published five times a year, is accepting subscription orders from alumni and friends of the College of Engineering. The magazine has made significant strides in the past few years and is excellent reading for keeping pace with engineering student thought and activities at K-State. Clip out this coupon today to be sure to receive 1972-73 issues.

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Seaton Hall  
Manhattan, Ks. 66506

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Alumni. How about sending a subscription to a prospective K-State engineering student?

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## NEWSWORTHY NOTES

KSU's urban car, conceived and developed by the College of Engineering honors students, was displayed Oct. 28 during the 29th annual Corn Show Parade in Jewell, Kan.

Dale L. Vance, Earth Sciences Laboratory, National Oceanic and Atmospheric Administration, Boulder, Colo., lectured at an electrical engineering colloquium Oct. 5. He discussed his experiences as the first American to participate with the Russians in joint scientific expeditions at Vostok, Antarctica.

Dr. William H. Johnson, professor and head of agricultural engineering, is 1972-1973 president of the Tri-Valley Chapter, Kansas Engineering Society.

An associate professor of agricultural engineering, Dr. Do-Sup Chung, is chairman-elect of the Kansas section, American Society of Agricultural Engineers, for 1972-1973.

Dr. Henry Gomberg, Ann Arbor, Mich., spoke on future research prospects of nuclear fusion power Oct. 19 before the K-State student branch, American Nuclear Society.

Kenneth E. Ebeling, on leave from North Dakota State University, Fargo, is an instructor in the KSU department of industrial engineering where he is studying toward the Ph.D.

The department of agricultural engineering has been given a \$4,751 Ford tractor chassis by the Farm Equipment Division, Ford Motor Company, for educational uses.

Dr. Joseph Glas, technical superintendent at the DuPont Cellophane Plant, Tecumseh, Kan., lectured Dec. 4 on some of DuPont's ecological programs before the K-State student chapter, American Society of Mechanical Engineers.

The KSU Industrial Extension Service, headed by Dr. William H. Honstead, conducted a conference on "Occupational, safety, and Health Act—Rules and Standards" Jan. 10 for contractors, builders, and manufacturers.

Don E. Anschutz, Russell, Kan., is the new president of the K-State student chapter, American Society of Agricultural Engineers.

David F. Waldo, Oberlin, Kan., has been elected new president of the American Society of Civil Engineers student chapter at K-State.

A third-year industrial engineering student, James G. Loyd, Sedgwick, Kan., is editor-in-chief of "The K-State Engineer," student magazine, for the spring and fall 1973 semesters. He succeeds Gary A. Sieverin, Clay Center, Kan., senior in mechanical engineering.



**K-HILL WHITEWASHED BY SIGMA TAU** — The 30-member pledge of Sigma Tau engineering honorary at K-State whitewashed the K-Hill Landmark in Manhattan Oct. 15, the day after the Wildcats beat KU 20-19 in football. The whitewashing by Sigma Tau has been a traditional event dating back 40 years. The job required 30 bags of white Portland cement, 30 bags of lime added to 400 gallons of water.

## Corwin Bennett Checks Notions About Warm Vs. Cold Colors

"What's so hot about red? It really isn't very hot," says a K-State industrial engineering professor.

Dr. Corwin A. Bennett has been an engineering professor at K-State for the past two years after serving as a researcher for IBM in New York for several years.

Bennett, who has a background in experimental psychology, feels others may disagree with him.

### How Fast Demand To Increase?

(Continued from Page 3)

ceremonies. The K-State Marching Band, directed by Phil Hewett, provided music.

"Ward Hall is certainly a landmark in the history of engineering at Kansas State University. It is a very happy development," said KSU President James A. McCain.

Dr. Faw indicated that the nuclear engineering faculty felt it was well worth the effort to conduct a dedication in an era when such traditions are being abandoned.

Speaking from a prepared text, Dr. Faw said "we cherish this opportunity to express our thanks for the . . . building."

He explained that the department has accepted a commitment to better the educational opportunities for its students. He said the department is dedicated to the task of providing an abundance of clean energy.

Dr. Faw said he feels that energy of the atomic nuclear holds the most promise for providing consumers with needed energy at acceptable costs.

The newly-dedicated teaching and research laboratories include a gamma-irradiation facility, neutron activation analysis laboratory, and radioisotope applications and instrumentation laboratories. The upper story of the addition to Ward Hall contains offices and conference rooms.

Why should a K-State engineering professor spend his time wondering about such questions?

First, he's being paid to do research on lighting by the Illuminating Engineering Research Institute. Second, he feels this research has implications for any designing, using, and building buildings.

His third reason for thinking that such research is important is because "many regard the various colors in the spectrum as being hot or cold, with varying degrees of thermal difference in between.

"For instance, when a person is thinking about painting a home, he might say 'how about using a nice warm yellow?'" Bennett says.

The colors regarded as warm are red, orange, and yellow. The cooler ones are purple, blue, and green. The dividing line between so-called hot and cold colors occurs somewhere between yellow and green, according to Bennett.

He contends that there are a number of principles of design for which "there is very little supportive research."

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